

일반화학검사

공통 보고서



대한진단검사정도관리협회
Korean Association of External Quality Assessment Service

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보고서 안내

보고서는 프로그램별 공통보고서와 기관별보고서로 구성됩니다.

정량검사 공통보고서에는 각 검사항목마다 참여한 전체 기관의 통계(All), 프로그램에 따른 기준분류 및 구체화된 세분류로 나누어 각각 참여기관수(N), Mean, SD(Standard Deviation), CV%(coefficient of variance), Median, Min, Max를 제시하고 있습니다.

해당 분류에 참여한 기관수가 10개 이상이면서 아래와 같이 outlier를 제거하고 남은 기관수가 8개 이상인 경우에만 Mean, SD, CV(%)를 제시하였습니다. Outlier는 Healy 방법으로 제거하였습니다(참고문헌: Healy MJR. Outliers in Clinical Chemistry Quality-Control Schemes. Clin Chem 1979;25:675-677). 즉, 해당 분류 순위 자료의 상단 및 하단 5% 자료를 각각 제외한 뒤, 자연로그로 치환한 전체 결과의 평균(trimmed mean, $\bar{x}$)과 가중치를 부여한 linear standard deviation (LSD)를 계산하여 Trimmed mean ($\bar{x}$) $\pm$ 3.0LSD를 벗어나는 경우 이상치로 판정하였습니다. Median, Min, Max는 outlier를 제거하지 않고 해당분류에 참여한 기관을 모두 포함하여 제시하고 있습니다. 단, 기관수가 2개인 경우 Min, Max만을 제시하며, 기관수가 1개인 경우 Median만 제시하고 있습니다.

정량검사 기관별보고서에는 기관에서 제출한 검사결과와 공통보고서에서 제시한 통계자료를 기반으로 프로그램에 따른 기준분류 및 구체화된 세분류의 SDI(standard deviation index)를 계산하여 제시하고 있으며, 각 검체마다 전체 기관 및 프로그램에 따른 기준분류의 히스토그램과 최대 12개까지 누적된 SDI를 표시하는 L차트를 제공하고 있습니다.

정량검사의 평가는 계산된 프로그램에 따른 기준분류 또는 구체화된 세분류의 SDI값이 있을 경우, 어떠한 SDI값이라도 ± 3 이하이면 "Acceptable"로 평가합니다. 만약, peer group의 수가 적은 이유로 세분류에서 '평가제외'이면서 기준분류에서 3SDI를 초과하는 경우에는 "Unacceptable"로 평가합니다.

정성검사 공통보고서에는 각 검사항목마다 참여한 기관에서 보고한 검사 결과들이 전체 기관의 통계(All), 프로그램에 따른 기준분류 및 구체화된 세분류별 통계로 구성되어 있습니다. 정성검사 기관별보고서에는 검사결과, intended response 및 평가결과가 있으며, 특별한 경우에 따라서 맞는 error code를 Remark에 제시합니다.

정성검사의 평가는 intended response와의 일치 여부로 판단하며, intended response는 신뢰할 만한 정답이나 신뢰할 만한 정답이 없는 경우에는 참여한 모든 기관에서 80%이상 일치를 보이는 결과로 합니다.

반정량검사의 평가는 intended response와의 일치 여부로 판단하며, intended response는 최빈도 ± 1 Grade로 하여 이 값이 80% 미만이 되는 경우에는 80%가 될 때까지 주변 결과 중 빈도가 높은 값을 추가합니다. 단, Negative 결과가 있는 경우에는 별도 협회 기준에 따라 판정합니다.

Remark 설명

101	배송된 검체의 상태가 부적절하나 재발송이 불가능하여 평가에서 제외됩니다.
102	검체의 문제로 해당 검사항목의 평가가 불가능합니다.
103	해당 기관에 배송된 검체의 문제로 평가에서 제외됩니다.
301	결과가 입력되지 않았습니다.
302	검사정보가 입력되지 않았습니다.
501	해당 항목의 참가기관 수가 적어 평가를 할 수 없습니다.
502	해당 기관이 사용하는 기기 및 시약에서 합의된 결론을 도출할 수 없어 평가할 수 없습니다.
503	분석가능범위를 벗어나는 결과로 인해 합의된 결론을 도출할 수 없어 평가할 수 없습니다.
504	해당기관이 사용하는 기기 및 시약에서 합의된 결론을 도출하였으나, 검체간섭 등의 영향으로 평가가 불가능합니다.
505	해당 검체에 대해 합의된 결론을 도출할 수 없어 평가할 수 없습니다.
506	해당 기관이 사용하는 기기 및 시약에서는 합의된 결론이 도출되었으나 의도된 결과 또는 연관된 검사종목의 결과와 상이하 여 평가할 수 없습니다.
507	시범항목 또는 기타 사유로 평가에서 제외하였습니다.
508	해당 검체에 대해 합의된 결론을 도출하였으나, 해당기관이 사용하는 기기 및 시약에서는 합의된 결론을 도출할 수 없어 협회 의 기준에 따라 평가하였습니다
515, 516	대분류에서 해당 검체에 대해 합의된 결론을 도출하였으나, 기준분류의 결론이 대분류 결론과 상이하여 협회에서 정한 기준으 로 판정하였습니다.
520	해당 검체에 대해 합의된 결론을 도출하고 평가하였으나, 검사항목이 education 이어서 인증평가에는 불포함됩니다.
530	검사 결과값이 하한치 미만이어서 협회에서 안내하고 있는 '0'으로 입력하여 통계 및 평가에서 제외되었습니다.
531	세분류에 해당하는 모든 참가기관의 결과가 통계에서 제외가 되어 관련 통계자료를 제시할 수 없습니다.
532	검사 결과값이 보고 가능 범위(AMR, Analytical measurement range)를 벗어날 경우 결과값(상한치 또는 하한치)을 그대로 입 력하여 통계에서 제외되었습니다.
533	해당기관에서 입력한 결과값 중 검사기관에서 제출한 검사결과자료와 불일치한 결과는 평가에서 제외합니다.
534	해당기관은 협회에서 요청한 분석결과자료를 미제출하여 입력한 결과값을 통계 산출시 제외하였습니다. 결과값 판정시 SDI 값을 제공하지 않고 오답(unacceptable)으로 평가합니다.

Remark 설명

	711	검사가 불가능한 검사방법 입니다.
	712	해당 검사항목의 일부 검체에 대하여 답변을 하지 않거나 모든 검체에 대하여 일부만 답변한 경우입니다.
	713	검사 결과값을 정량 평가 기준인 SDI 값으로 평가하지 않고, Rule of Rumke 기준을 적용하여 평가하였습니다.
세균검사 프로그램	813	소변검체에서만 보고가 가능한 항목입니다.
	815	보고 가능 여부에 대해 합의된 결론을 도출할 수 없어 평가할 수 없습니다.
	820	Contamination 으로 보고하여 평가할 수 없습니다.
	825	보고하지 않는 항생제를 검사하였습니다.
	830	보고하여야 하는 항생제를 검사하지 않았습니다.
	911	분석범위 외의 결과입니다.



Alanine transferase (ALT)

CC-25-01

	N	Mean	SD	CV(%)	Median	Min	Max
All	1972	176.9	9.1	5.1	177	57	259
Dry chemistry	15	173.6	4.6	2.6	175	165	181
Fujifilm Corporation	1				177		
Ortho Clinical Diagnostics	14	173.4	4.6	2.7	175	165	181
LDH with P5P	82	166.9	3.5	2.1	167	154	215
Roche	77	166.4	2.8	1.7	166	154	180
Siemens Healthineers	1				174		
SNIBE Co.,Ltd	4				187	180	215
LDH without P5P	1857	177.4	9.0	5.1	178	57	259
신양화학	5				180	178	191
아산제약(주)	17	189.5	7.2	3.8	189	120	201
(주)아이비디랩	14	170.3	1.9	1.1	170	155	179
(주)에스더블유헬스케어(구. 이든하이텍)	5				175	174	177
(주)제이앤티 바이오(구. (주)젠바디)	2					155	158
(주)지디엘코리아	57	185.1	5.8	3.1	186	159	203
(주)티씨엠생명과학	14	195.2	14.6	7.5	194	150	229
Abbott	17	167.4	2.4	1.4	168	163	172
Beckman Coulter Inc.	261	178.3	4.3	2.4	178	159	196
Bion	59	182.5	10.3	5.7	180	163	208
Biosystems	144	179.4	9.3	5.2	179	159	222
Chema Diagnostica	3				172	163	175
Diasys	28	183.6	4.9	2.7	184	166	194
Elitechgroup	20	182.7	9.6	5.3	182	165	206
Erba diagnostics	8				177	155	190

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Genematrix(구 진메트릭스바이오)	4				173	170	194
JW바이오사이언스(주)(구 JW중외메디칼)	43	186.8	4.3	2.3	187	168	199
LC Diagnostics	5				174	172	178
PZ Cormay	90	170.8	6.9	4.0	171	123	188
Randox	1				202		
Roche	288	165.7	2.8	1.7	166	156	230
Sekisui Medical	290	178.2	3.7	2.1	178	157	194
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	170	186.3	5.4	2.9	187	160	225
Shino-Test Corporation	101	178.6	4.2	2.4	179	159	191
Siemens Healthineers	40	192.6	2.7	1.4	192	173	198
Stanbio	25	169.8	9.0	5.3	169	57	259
Thermo Fisher Scientific	10	186.1	6.1	3.3	186	151	193
Wako	136	176.6	5.0	2.9	177	156	198
Other Method	18	172.4	12.2	7.1	172	144	194
(주)대광메디텍	1				169		
주식회사 한랩	1				173		
Beckman Coulter Inc.	1				183		
Others	14	172.5	13.3	7.7	173	144	194
Rayto Life and Analytical Sciences Co., Ltd.	1				163		

CC-25-02

	N	Mean	SD	CV(%)	Median	Min	Max
All	1972	30.1	2.2	7.4	30	9	77
Dry chemistry	15	27.6	1.0	3.7	28	26	32
Fujifilm Corporation	1				32		
Ortho Clinical Diagnostics	14	27.6	1.0	3.7	28	26	29
LDH with P5P	82	27.8	0.8	3.0	28	26	35
Roche	77	27.7	0.7	2.7	28	26	30

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Siemens Healthineers	1				33		
SNIBE Co.,Ltd	4				33	30	35
LDH without P5P	1857	30.2	2.2	7.3	30	9	77
신양화학	5				30	30	31
아산제약(주)	17	32.4	1.8	5.6	32	22	35
(주)아이비디랩	14	31.1	1.9	6.0	31	28	35
(주)에스더블유헬스케어(구. 이든하이텍)	5				30	29	33
(주)제이앤티 바이오(구 (주)젠바디)	2					27	29
(주)지디엘코리아	57	31.9	1.6	5.0	32	24	36
(주)티씨엠생명과학	14	32.5	3.5	10.8	33	26	37
Abbott	17	28.6	0.8	2.8	29	27	30
Beckman Coulter Inc.	261	30.2	1.0	3.3	30	25	34
Bion	59	31.4	2.2	7.0	31	27	36
Biosystems	144	30.7	2.4	7.8	30	25	38
Chema Diagnostica	3				29	27	30
Diasys	28	30.9	1.2	4.0	31	29	34
Elitechgroup	20	30.4	2.1	7.0	30	27	34
Erba diagnostics	8				30	20	36
Genematrix(구 진매트릭스바이오)	4				28	27	33
JW바이오사이언스(주)(구 JW중외메디칼)	43	29.6	1.7	5.8	30	26	33
LC Diagnostics	5				29	28	30
PZ Cormay	90	28.3	1.8	6.4	28	21	32
Randox	1				34		
Roche	288	27.6	1.0	3.5	28	22	39
Sekisui Medical	290	30.7	1.2	4.0	31	27	36
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	170	33.1	1.4	4.2	33	24	38
Shino-Test Corporation	101	30.7	1.6	5.1	30	26	37
Siemens Healthineers	40	33.1	1.1	3.2	33	30	36
Stanbio	25	28.8	2.0	7.0	29	9	45
Thermo Fisher Scientific	10	31.9	1.9	5.8	32	28	34

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Wako	136	29.7	1.1	3.9	30	25	77
Other Method	18	29.5	2.1	7.1	29	21	34
(주)대광메디텍	1				26		
주식회사 한랩	1				28		
Beckman Coulter Inc.	1				30		
Others	14	29.8	2.1	7.1	29	21	34
Rayto Life and Analytical Sciences Co., Ltd.	1				30		

CC-25-03

	N	Mean	SD	CV(%)	Median	Min	Max
All	1972	80.7	4.5	5.6	81	25	179
Dry chemistry	15	82.2	3.1	3.7	83	75	86
Fujifilm Corporation	1				84		
Ortho Clinical Diagnostics	14	82.1	3.1	3.8	83	75	86
LDH with P5P	82	75.6	1.5	2.0	76	70	98
Roche	77	75.6	1.5	2.0	76	70	82
Siemens Healthineers	1				77		
SNIBE Co.,Ltd	4				83	82	98
LDH without P5P	1857	80.9	4.5	5.5	81	25	179
신양화학	5				81	80	87
아산제약(주)	17	87.1	4.0	4.6	87	56	93
(주)아이비디랩	14	78.3	2.8	3.5	79	72	83
(주)에스더블유헬스케어(구. 이든하이텍)	5				80	78	82
(주)제이앤티 바이오(구. (주)젠바디)	2					73	75
(주)지디엘코리아	57	84.5	3.1	3.7	85	70	91
(주)티씨엠생명과학	14	89.0	6.6	7.4	88	70	105
Abbott	17	76.1	1.3	1.7	76	74	79
Beckman Coulter Inc.	261	81.1	2.1	2.6	81	72	88

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Bion	59	83.1	4.7	5.7	83	74	106
Biosystems	144	83.0	4.4	5.3	83	72	179
Chema Diagnostica	3				78	74	83
Diasys	28	82.9	1.9	2.3	83	76	87
Elitechgroup	20	85.1	5.5	6.5	85	74	96
Erba diagnostics	8				82	67	89
Genematrix(구 진메트릭스바이오)	4				81	75	89
JW바이오사이언스(주)(구 JW중외메디칼)	43	84.5	1.8	2.2	84	77	89
LC Diagnostics	5				81	79	83
PZ Cormay	90	78.0	3.6	4.6	78	58	88
Randox	1				91		
Roche	288	75.1	1.5	2.0	75	71	100
Sekisui Medical	290	81.1	2.1	2.6	81	72	88
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	170	85.6	2.8	3.2	85	68	136
Shino-Test Corporation	101	81.5	2.1	2.5	81	72	87
Siemens Healthineers	40	87.3	2.9	3.4	88	55	92
Stanbio	25	78.7	5.2	6.6	78	25	108
Thermo Fisher Scientific	10	83.8	6.4	7.7	86	73	91
Wako	136	80.0	2.7	3.4	80	29	175
Other Method	18	78.2	5.4	6.9	79	67	86
(주)대광메디텍	1				75		
주식회사 한랩	1				79		
Beckman Coulter Inc.	1				81		
Others	14	78.1	6.0	7.7	78	67	86
Rayto Life and Analytical Sciences Co., Ltd.	1				80		

Albumin (ALB)

CC-25-01

	N	Mean	SD	CV(%)	Median	Min	Max
All	1818	4.36	0.17	3.9	4.4	1.3	45.0
Dye Binding-BCG	1750	4.36	0.17	3.8	4.4	1.3	45.0
신양화학	6				4.4	4.3	4.4
아산제약(주)	17	4.13	0.09	2.3	4.1	3.9	4.5
(주)신화메디	8				4.5	4.2	4.5
(주)아이비디랩	12	4.33	0.14	3.3	4.4	4.0	4.5
(주)에스더블유헬스케어(구. 이든하이텍)	5				4.3	4.1	4.3
(주)제이엔티 바이오(구 (주)젠바디)	3				4.5	4.1	4.5
(주)지디엘코리아	48	3.99	0.12	3.0	4.0	3.6	4.4
(주)티씨엠생명과학	12	4.43	0.25	5.6	4.4	4.1	4.9
Abbott	17	4.31	0.06	1.3	4.3	4.2	4.4
Beckman Coulter Inc.	247	4.31	0.09	2.1	4.3	3.8	5.0
Bion	45	4.29	0.11	2.6	4.3	3.0	4.8
Biosystems	124	4.41	0.16	3.5	4.4	3.6	5.2
Chema Diagnostica	1				4.6		
Diasys	24	4.51	0.13	2.9	4.5	4.2	5.0
Elitechgroup	16	4.36	0.08	1.9	4.4	4.2	4.5
Erba diagnostics	7				4.2	4.0	4.3
Fujifilm Corporation	1				5.5		
Genematrix(구 진메트릭스바이오)	4				4.4	4.3	4.6
JW바이오사이언스(주)(구 JW중외메디칼)	41	4.46	0.14	3.3	4.4	4.0	4.7
LC Diagnostics	15	4.30	0.10	2.4	4.3	4.0	4.5
Ortho Clinical Diagnostics	12	4.18	0.08	2.0	4.2	4.0	4.3
PZ Cormay	66	4.40	0.15	3.4	4.4	4.0	4.9

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Randox	1				4.3		
Roche	344	4.51	0.08	1.9	4.5	4.2	4.8
Sekisui Medical	284	4.24	0.11	2.5	4.2	3.9	4.8
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	157	4.42	0.16	3.6	4.4	3.7	4.8
Siemens Healthineers	41	4.43	0.07	1.6	4.4	4.2	4.6
SNIBE Co.,Ltd	4				4.2	4.2	4.3
Stanbio	32	4.17	0.23	5.6	4.2	1.6	4.6
Thermo Fisher Scientific	8				4.2	4.1	4.3
Wako	148	4.36	0.14	3.2	4.4	1.3	45.0
Dye Binding-BCP	57	4.22	0.10	2.4	4.2	3.9	4.5
Beckman Coulter Inc.	2					4.3	4.4
Roche	1				4.2		
Sekisui Medical	53	4.21	0.09	2.1	4.2	4.0	4.5
Siemens Healthineers	1				3.9		
Other Method	11	4.24	0.21	5.0	4.3	3.9	4.5
(주)대광메디텍	1				4.3		
주식회사 한랩	1				4.5		
Others	8				4.2	3.9	4.5
Rayto Life and Analytical Sciences Co., Ltd.	1				4.3		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1818	2.58	0.13	5.1	2.6	0.9	4.1
Dye Binding-BCG	1750	2.58	0.13	5.1	2.6	0.9	4.1
신양화학	6				2.6	2.5	2.7
아산제약(주)	17	2.65	0.15	5.7	2.7	2.3	2.9
(주)신화메디	8				2.6	2.4	2.7
(주)아이비디랩	12	2.66	0.13	4.9	2.7	2.4	2.9

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㈜에스더블유헬스케어(구. 이든하이텍)	5				2.7	2.7	2.9
㈜제이엔티 바이오(구 ㈜젠바디)	3				2.7	2.7	2.8
㈜지디엘코리아	48	2.45	0.07	2.8	2.4	2.2	2.6
㈜티씨엠생명과학	12	2.77	0.15	5.4	2.8	2.6	3.0
Abbott	17	2.48	0.04	1.8	2.5	2.4	2.6
Beckman Coulter Inc.	247	2.52	0.06	2.6	2.5	2.2	3.0
Bion	45	2.55	0.07	2.7	2.5	2.0	2.7
Biosystems	124	2.53	0.11	4.2	2.5	2.0	3.3
Chema Diagnostica	1				2.7		
Diasys	24	2.70	0.13	4.7	2.7	2.5	3.0
Elitechgroup	16	2.72	0.10	3.6	2.7	2.6	2.9
Erba diagnostics	7				2.6	2.5	2.7
Fujifilm Corporation	1				3.0		
Genematrix(구 진메트릭스바이오)	4				2.8	2.7	3.0
JW바이오사이언스(주)(구 JW중외메디칼)	41	2.64	0.08	3.0	2.6	2.5	2.9
LC Diagnostics	15	2.54	0.05	2.0	2.5	2.3	2.6
Ortho Clinical Diagnostics	12	2.34	0.05	2.2	2.3	2.1	2.4
PZ Cormay	66	2.76	0.12	4.4	2.8	2.5	3.1
Randox	1				2.6		
Roche	344	2.71	0.06	2.1	2.7	2.4	2.9
Sekisui Medical	284	2.48	0.07	2.7	2.5	2.3	2.8
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	157	2.61	0.09	3.5	2.6	2.3	2.9
Siemens Healthineers	41	2.58	0.04	1.6	2.6	2.5	2.7
SNIBE Co.,Ltd	4				2.7	2.3	2.7
Stanbio	32	2.56	0.14	5.6	2.6	0.9	2.9
Thermo Fisher Scientific	8				2.7	2.5	2.7
Wako	148	2.53	0.07	2.8	2.5	2.3	4.1
Dye Binding-BCP	57	2.42	0.07	3.0	2.4	2.3	2.6
Beckman Coulter Inc.	2					2.5	2.6
Roche	1				2.5		

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Sekisui Medical	53	2.41	0.06	2.5	2.4	2.3	2.6
Siemens Healthineers	1				2.4		
Other Method	11	2.59	0.11	4.4	2.6	2.4	2.8
(주)대광메디텍	1				2.7		
주식회사 한랩	1				2.5		
Others	8				2.6	2.4	2.8
Rayto Life and Analytical Sciences Co., Ltd.	1				2.5		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1818	3.27	0.14	4.3	3.3	1.2	4.6
Dye Binding-BCG	1750	3.27	0.14	4.3	3.3	1.2	4.6
신양화학	6				3.3	3.2	3.4
아산제약(주)	17	3.26	0.12	3.6	3.3	3.1	3.5
(주)신화메디	8				3.3	3.1	3.3
(주)아이비디랩	12	3.29	0.09	2.7	3.3	3.1	3.4
(주)에스더블유헬스케어(구. 이든하이텍)	5				3.4	3.3	3.4
(주)제이앤티 바이오(구 (주)젠마디)	3				3.4	3.3	3.4
(주)지디엘코리아	48	3.08	0.10	3.4	3.1	2.7	3.3
(주)티씨엠생명과학	12	3.46	0.20	5.8	3.4	3.3	3.9
Abbott	17	3.20	0.00	0.0	3.2	3.1	3.3
Beckman Coulter Inc.	247	3.20	0.08	2.4	3.2	2.8	3.7
Bion	45	3.21	0.09	2.7	3.2	2.0	3.4
Biosystems	124	3.25	0.14	4.3	3.3	2.7	4.6
Chema Diagnostica	1				3.5		
Diasys	24	3.37	0.15	4.3	3.4	3.1	3.7
Elitechgroup	16	3.40	0.12	3.4	3.4	3.2	3.6
Erba diagnostics	7				3.2	3.2	3.3

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Fujifilm Corporation	1				4.0		
Genematrix(구 진메트릭스바이오)	4				3.5	3.4	4.0
JW바이오사이언스(주)(구 JW중외메디칼)	41	3.34	0.07	2.2	3.3	3.1	3.6
LC Diagnostics	15	3.18	0.06	1.7	3.2	3.0	3.4
Ortho Clinical Diagnostics	12	3.12	0.06	1.9	3.1	3.0	3.2
PZ Cormay	66	3.39	0.15	4.5	3.4	3.0	3.8
Randox	1				3.4		
Roche	344	3.42	0.07	2.0	3.4	2.8	3.8
Sekisui Medical	284	3.15	0.07	2.4	3.2	2.9	4.5
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	157	3.30	0.08	2.5	3.3	2.9	3.8
Siemens Healthineers	41	3.29	0.06	1.8	3.3	3.1	3.4
SNIBE Co.,Ltd	4				3.2	3.1	3.5
Stanbio	32	3.20	0.14	4.5	3.2	1.2	3.5
Thermo Fisher Scientific	8				3.3	3.2	3.4
Wako	148	3.24	0.10	3.0	3.2	2.6	3.6
Dye Binding-BCP	57	3.11	0.08	2.4	3.1	2.9	3.3
Beckman Coulter Inc.	2					3.2	3.3
Roche	1				3.1		
Sekisui Medical	53	3.11	0.07	2.3	3.1	2.9	3.3
Siemens Healthineers	1				2.9		
Other Method	11	3.25	0.09	2.9	3.3	3.1	3.4
(주)대광메디텍	1				3.3		
주식회사 한랩	1				3.3		
Others	8				3.3	3.1	3.4
Rayto Life and Analytical Sciences Co., Ltd.	1				3.3		

Alkaline phosphatase (ALP)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1717	365.7	129.0	35.3	312	120	905
Other Method	11	377.2	152.7	40.5	323	179	650
(주)대광메디텍	1				301		
주식회사 한랩	1				650		
Others	8				320	179	607
Rayto Life and Analytical Sciences Co., Ltd.	1				442		
PNPP, AMP buffer	1239	294.2	28.1	9.5	290	120	905
신양화학	1				297		
아산제약(주)	22	267.8	12.1	4.5	268	249	324
(주)아이비디랩	5				303	293	332
(주)지디엘코리아	7				317	297	387
Abbott	17	277.2	4.7	1.7	277	268	285
Beckman Coulter Inc.	235	319.4	12.5	3.9	317	120	378
Bion	45	312.2	22.9	7.3	311	254	905
Biosystems	56	321.1	21.8	6.8	321	272	379
Diasys	32	272.7	25.3	9.3	269	237	343
Erba diagnostics	7				284	238	311
Genematrix(구 진매트릭스바이오)	4				280	268	295
JW바이오사이언스(주)(구 JW중외메디칼)	39	312.7	12.6	4.0	313	282	334
LC Diagnostics	11	310.1	18.7	6.0	300	228	348
Ortho Clinical Diagnostics	11	255.4	12.2	4.8	254	234	276
PZ Cormay	64	302.0	18.2	6.0	298	240	350
Randox	1				291		
Roche	334	270.8	13.4	5.0	273	222	316

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Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	145	320.1	16.9	5.3	322	220	405
Shino-Test Corporation	121	277.2	9.8	3.5	276	257	327
Siemens Healthineers	42	266.0	7.3	2.7	267	247	298
SNIBE Co.,Ltd	2					302	307
Stanbio	29	302.9	25.9	8.6	302	121	356
Thermo Fisher Scientific	9				283	247	333
PNPP, DEA buffer	134	448.8	54.5	12.1	445	274	615
신양화학	7				415	274	452
아산제약(주)	2					408	615
(주)아이비디랩	5				431	414	470
(주)제이앤티 바이오(구 (주)젠바디)	2					494	600
(주)지디엘코리아	30	416.7	19.6	4.7	415	327	461
(주)티씨엠생명과학	9				459	382	503
Biosystems	63	471.4	55.3	11.7	458	322	602
Chema Diagnostica	2					421	430
Elitechgroup	14	429.4	25.9	6.0	431	396	470
PNPP, EAE buffer	333	609.6	36.8	6.0	601	212	737
아산제약(주)	1				628		
Fujifilm Corporation	1				636		
Sekisui Medical	176	587.4	24.0	4.1	585	295	698
Shino-Test Corporation	10	280.3	9.0	3.2	280	212	293
Wako	145	633.5	31.9	5.0	636	341	737

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1717	47.2	27.4	57.9	32	16	338
Other Method	11	56.5	31.1	55.0	42	20	103
(주)대광메디텍	1				29		

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주식회사 한랩	1				103		
Others	8				38	20	90
Rayto Life and Analytical Sciences Co., Ltd.	1				84		
PNPP, AMP buffer	1239	31.2	2.6	8.3	31	16	95
신양화학	1				31		
아산제약(주)	22	26.6	1.5	5.8	26	24	29
(주)아이비디랩	5				29	27	30
(주)지디엘코리아	7				34	28	60
Abbott	17	31.3	1.4	4.6	31	29	34
Beckman Coulter Inc.	235	30.3	2.4	8.0	30	17	37
Bion	45	29.3	2.5	8.7	30	21	84
Biosystems	56	33.8	3.4	10.1	34	23	54
Diasys	32	31.6	2.6	8.2	32	27	39
Erba diagnostics	7				24	20	32
Genematrix(구 진매트릭스바이오)	4				31	29	37
JW바이오사이언스(주)(구 JW중외메디칼)	39	30.8	1.7	5.7	31	22	34
LC Diagnostics	11	35.7	5.0	14.0	36	19	47
Ortho Clinical Diagnostics	11	39.6	1.9	4.8	40	36	42
PZ Cormay	64	30.2	2.7	9.1	30	22	37
Randox	1				29		
Roche	334	32.1	1.5	4.7	32	24	38
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	145	31.4	2.1	6.7	31	23	41
Shino-Test Corporation	121	30.1	1.6	5.4	30	22	95
Siemens Healthineers	42	32.9	1.9	5.6	33	29	38
SNIBE Co.,Ltd	2					32	37
Stanbio	29	31.4	3.3	10.5	31	16	37
Thermo Fisher Scientific	9				37	29	39
PNPP, DEA buffer	134	74.4	6.6	8.9	74	32	117
신양화학	7				70	43	74
아산제약(주)	2					70	108

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㈜아이비디랩	5				72	70	77
㈜제이엔티 바이오(구 ㈜젠바디)	2					85	104
㈜지디엘코리아	30	69.8	4.4	6.3	69	61	78
㈜티씨엠생명과학	9				83	68	106
Biosystems	63	76.9	7.2	9.4	75	32	117
Chema Diagnostica	2					70	78
Elitechgroup	14	75.8	2.2	2.9	76	63	80
PNPP, EAE buffer	333	97.4	6.2	6.3	96	21	338
아산제약(주)	1				100		
Fujifilm Corporation	1				112		
Sekisui Medical	176	94.9	4.5	4.7	94	31	117
Shino-Test Corporation	10	31.0	1.5	4.9	31	21	110
Wako	145	100.2	5.9	5.9	99	54	338

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1717	184.2	72.1	39.1	150	58	689
Other Method	11	198.2	78.1	39.4	154	106	340
(주)대광메디텍	1				147		
주식회사 한랩	1				340		
Others	8				153	106	306
Rayto Life and Analytical Sciences Co., Ltd.	1				244		
PNPP, AMP buffer	1239	144.0	11.8	8.2	143	58	433
신양화학	1				144		
아산제약(주)	22	131.3	7.1	5.4	130	122	153
㈜아이비디랩	5				148	140	160
㈜지디엘코리아	7				154	150	174
Abbott	17	137.2	3.6	2.7	137	133	146

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Beckman Coulter Inc.	235	153.1	6.6	4.3	153	73	181
Bion	45	149.8	11.1	7.4	151	128	433
Biosystems	56	157.5	9.7	6.2	159	136	194
Diasys	32	131.6	8.9	6.7	131	121	165
Erba diagnostics	7				138	112	160
Genematrix(구 진매트릭스바이오)	4				134	129	147
JW바이오사이언스(주)(구 JW중외메디칼)	39	153.3	7.2	4.7	153	136	172
LC Diagnostics	11	153.7	10.5	6.9	150	106	176
Ortho Clinical Diagnostics	11	141.5	5.6	4.0	143	130	149
PZ Cormay	64	148.2	8.7	5.9	146	123	172
Randox	1				148		
Roche	334	134.6	6.4	4.7	135	104	152
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	145	152.8	7.1	4.6	153	108	220
Shino-Test Corporation	121	135.6	4.9	3.6	135	126	158
Siemens Healthineers	42	134.2	4.4	3.2	135	123	151
SNIBE Co.,Ltd	2					144	144
Stanbio	29	149.9	12.9	8.6	147	58	177
Thermo Fisher Scientific	9				148	122	165
PNPP, DEA buffer	134	237.8	24.7	10.4	235	145	487
신양화학	7				222	145	242
아산제약(주)	2					220	333
(주)아이비디랩	5				226	224	235
(주)제이엔티 바이오(구 (주)젠바디)	2					267	325
(주)지디엘코리아	30	221.8	11.4	5.1	220	161	246
(주)티씨엠생명과학	9				249	205	273
Biosystems	63	248.9	27.8	11.2	241	151	487
Chema Diagnostica	2					228	244
Elitechgroup	14	231.4	12.6	5.4	233	212	251
PNPP, EAE buffer	333	320.1	19.8	6.2	315	83	689
아산제약(주)	1				331		

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Fujifilm Corporation	1				381		
Sekisui Medical	176	309.1	13.4	4.3	307	171	366
Shino-Test Corporation	10	138.2	4.6	3.4	139	102	146
Wako	145	332.0	17.6	5.3	331	83	689



대한진단검사정도관리협회
Korean Association of External Quality Assessment Service



Amylase

CC-25-01

	N	Mean	SD	CV(%)	Median	Min	Max
All	919	312.5	47.7	15.3	289	164	446
Dry chemistry	11	168.5	4.3	2.5	169	164	177
Ortho Clinical Diagnostics	11	168.5	4.3	2.5	169	164	177
Hydrolysis of 2-chloro-4-nitrophenyl-azido-deoxy-maltopentaoside	4				377	369	404
Sekisui Medical	4				377	369	404
Hydrolysis of 2-chloro-4-nitrophenyl-galactopyranosylmaltoside	152	375.6	6.2	1.7	375	294	402
Elitechgroup	4				346	339	364
Sekisui Medical	148	375.6	6.1	1.6	375	294	402
Hydrolysis of 2-chloro-4-nitrophenyl-α-D-maltotrioside	233	278.6	19.2	6.9	272	222	360
(주)제이앤티 바이오(구 (주)젠바디)	1				280		
Abbott	13	306.2	7.6	2.5	304	296	325
Beckman Coulter Inc.	152	269.1	6.1	2.2	269	222	304
Biosystems	38	302.3	13.7	4.5	304	260	333
Erba diagnostics	1				260		
JW바이오사이언스(주)(구 JW중외메디칼)	13	272.5	10.7	3.9	275	254	287
LC Diagnostics	3				296	287	360
PZ Cormay	12	327.7	19.5	6.0	327	287	360
Hydrolysis of 4,6-ethylidene-4-nitrophenyl-maltoheptaose	422	290.4	15.4	5.3	287	250	336
아산제약(주)	12	291.1	12.1	4.2	291	275	318
영인과학	1				312		
(주)아이비디랩	6				285	271	307
(주)지디엘코리아	18	278.5	7.4	2.7	276	267	289
(주)티씨엠생명과학	2					255	264
Bion	14	283.5	23.2	8.2	273	260	334

Diasys	16	268.0	5.1	1.9	267	260	288
Fujifilm Corporation	1				260		
Roche	227	284.6	4.4	1.6	285	250	298
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	44	302.7	8.4	2.8	304	269	324
Shino-Test Corporation	30	306.3	8.4	2.7	306	257	325
Siemens Healthineers	42	319.9	6.2	1.9	319	279	332
Stanbio	7				284	274	336
Thermo Fisher Scientific	2					307	318
Hydrolysis of 4-nitrophenylbenzyl-α-maltopentaose	95	407.1	13.5	3.3	405	250	446
JW바이오사이언스(주)(구 JW중외메디칼)	12	272.7	13.3	4.9	277	250	290
Wako	83	407.6	11.4	2.8	407	366	446
Other Method	2					271	282
Others	2					271	282

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	N	Mean	SD	CV(%)	Median	Min	Max
All	919	45.0	5.1	11.3	45	31	56
Dry chemistry	11	34.6	1.6	4.7	35	32	37
Ortho Clinical Diagnostics	11	34.6	1.6	4.7	35	32	37
Hydrolysis of 2-chloro-4-nitrophenyl-azido-deoxy-maltopentaoside	4				51	49	53
Sekisui Medical	4				51	49	53
Hydrolysis of 2-chloro-4-nitrophenyl-galactopyranosylmaltoside	152	50.8	1.3	2.5	51	43	54
Elitechgroup	4				47	43	48
Sekisui Medical	148	50.8	1.3	2.5	51	45	54
Hydrolysis of 2-chloro-4-nitrophenyl-α-D-maltotrioside	233	39.6	3.6	9.0	38	31	49
(주)제이앤디 바이오(구 (주)젠바디)	1				38		
Abbott	13	44.5	0.9	2.0	44	43	46
Beckman Coulter Inc.	152	37.7	1.1	3.0	38	32	44

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Biosystems	38	43.7	2.2	5.1	44	34	49
Erba diagnostics	1				31		
JW바이오사이언스(주)(구 JW중외메디칼)	13	40.6	1.6	4.0	41	38	43
LC Diagnostics	3				45	43	49
PZ Cormay	12	46.5	2.2	4.6	47	36	49
Hydrolysis of 4,6-ethylidene-4-nitrophenyl-maltoheptaose	422	45.2	2.3	5.0	45	34	53
아산제약(주)	12	45.4	1.4	3.2	46	43	47
영인과학	1				48		
(주)아이비디랩	6				43	34	53
(주)지디엘코리아	18	44.6	1.4	3.1	45	43	47
(주)티씨엠생명과학	2					39	41
Bion	14	42.6	3.9	9.2	41	37	50
Diasys	16	39.1	1.8	4.5	38	36	42
Fujifilm Corporation	1				50		
Roche	227	44.3	0.8	1.9	44	40	47
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	44	47.1	1.7	3.6	47	40	51
Shino-Test Corporation	30	47.8	1.7	3.6	48	38	52
Siemens Healthineers	42	48.9	0.7	1.4	49	43	51
Stanbio	7				45	43	48
Thermo Fisher Scientific	2					46	46
Hydrolysis of 4-nitrophenylbenzyl-α-maltopentaose	95	51.7	1.9	3.7	52	37	56
JW바이오사이언스(주)(구 JW중외메디칼)	12	40.5	2.0	5.0	41	37	44
Wako	83	52.0	1.3	2.6	52	47	56
Other Method	2					37	42
Others	2					37	42

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N	Mean	SD	CV(%)	Median	Min	Max
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All	919	143.3	20.6	14.4	134	80	329
Dry chemistry	11	83.7	2.2	2.6	84	80	93
Ortho Clinical Diagnostics	11	83.7	2.2	2.6	84	80	93
Hydrolysis of 2-chloro-4-nitrophenyl-azido-deoxy-maltopentaoside	4				172	167	182
Sekisui Medical	4				172	167	182
Hydrolysis of 2-chloro-4-nitrophenyl-galactopyranosylmaltoside	152	169.9	3.2	1.9	170	135	183
Elitechgroup	4				153	151	164
Sekisui Medical	148	169.9	3.2	1.9	170	135	183
Hydrolysis of 2-chloro-4-nitrophenyl-α-D-maltotrioside	233	127.5	9.2	7.2	125	104	329
(주)제이앤티 바이오(구 (주)젠바디)	1				130		
Abbott	13	139.8	2.0	1.4	140	136	148
Beckman Coulter Inc.	152	122.9	3.0	2.4	123	104	140
Biosystems	38	139.4	5.7	4.1	140	118	329
Erba diagnostics	1				116		
JW바이오사이언스(주)(구 JW중외메디칼)	13	125.4	4.6	3.7	126	118	132
LC Diagnostics	3				137	135	167
PZ Cormay	12	152.1	6.5	4.3	151	126	162
Hydrolysis of 4,6-ethylidene-4-nitrophenyl-maltoheptaose	422	134.8	7.2	5.3	133	117	218
아산제약(주)	12	135.3	4.9	3.6	136	128	145
영인과학	1				144		
(주)아이비디랩	6				135	124	147
(주)지디엘코리아	18	130.2	3.0	2.3	131	125	143
(주)티씨엠생명과학	2					121	126
Bion	14	130.7	9.3	7.1	125	123	148
Diasys	16	123.0	3.0	2.4	122	120	129
Fujifilm Corporation	1				131		
Roche	227	131.9	2.0	1.5	132	117	139
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	44	140.8	4.7	3.3	141	120	218
Shino-Test Corporation	30	143.1	4.0	2.8	144	118	159
Siemens Healthineers	42	148.1	2.7	1.8	148	130	154

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Stanbio	7				136	133	158
Thermo Fisher Scientific	2					141	149
Hydrolysis of 4-nitrophenylbenzyl-α-maltopentaose	95	182.1	7.4	4.1	183	116	197
JW바이오사이언스(주)(구 JW중외메디칼)	12	125.9	6.4	5.1	127	116	137
Wako	83	182.9	5.1	2.8	183	164	197
Other Method	2					126	128
Others	2					126	128



Aspartate aminotransferase (AST)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1972	254.7	13.4	5.3	256	96	312
Dry chemistry	15	287.4	9.8	3.4	285	259	312
Fujifilm Corporation	1				259		
Ortho Clinical Diagnostics	14	285.5	7.0	2.5	287	268	312
MDH with P5P	78	256.4	5.6	2.2	257	233	268
Roche	77	256.5	5.6	2.2	257	233	268
Siemens Healthineers	1				253		
MDH without P5P	1861	254.5	13.4	5.3	256	96	306
신양화학	5				263	260	279
아산제약(주)	17	266.2	11.2	4.2	266	206	288
(주)아이비디랩	14	242.6	4.0	1.7	242	228	250
(주)에스더블유헬스케어(구. 이든하이텍)	4				255	249	267
(주)제이앤티 바이오(구 (주)젠바디)	2					222	248
(주)지디엘코리아	58	271.5	9.9	3.6	271	242	297
(주)티씨엠생명과학	14	260.8	19.4	7.4	264	223	290
Abbott	17	225.5	2.7	1.2	225	219	231
Beckman Coulter Inc.	261	258.8	6.8	2.6	259	225	288
Bion	59	253.4	14.5	5.7	249	224	276
Biosystems	144	259.9	18.0	6.9	261	208	306
Chema Diagnostica	3				235	227	247
Diasys	28	243.3	8.2	3.4	243	212	260
Elitechgroup	20	258.5	14.6	5.7	259	230	294
Erba diagnostics	8				247	224	262
Genematrix(구 친매트릭스바이오)	4				249	232	253

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JW바이오사이언스(주)(구 JW중외메디칼)	42	259.1	5.7	2.2	260	243	279
LC Diagnostics	5				259	250	273
PZ Cormay	90	256.1	11.5	4.5	256	197	279
Randox	1				288		
Roche	288	243.0	7.2	3.0	242	166	265
Sekisui Medical	290	263.6	7.2	2.7	263	231	289
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	170	257.8	9.5	3.7	258	220	305
Shino-Test Corporation	101	249.2	6.2	2.5	249	225	264
Siemens Healthineers	41	256.6	6.8	2.6	257	233	272
SNIBE Co.,Ltd	4				253	250	275
Stanbio	25	260.0	15.1	5.8	263	96	291
Thermo Fisher Scientific	10	255.5	12.3	4.8	253	243	281
Wako	136	242.9	10.8	4.4	241	216	270
Other Method	18	248.0	14.6	5.9	245	196	273
(주)대광메디텍	1				250		
주식회사 한랩	1				240		
Beckman Coulter Inc.	1				260		
Others	14	249.7	14.0	5.6	245	196	273
Rayto Life and Analytical Sciences Co., Ltd.	1				220		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1972	42.5	2.6	6.0	43	14	97
Dry chemistry	15	43.9	1.7	3.8	44	41	47
Fujifilm Corporation	1				41		
Ortho Clinical Diagnostics	14	44.1	1.5	3.4	44	42	47
MDH with P5P	78	39.8	0.8	2.1	40	36	42
Roche	77	39.8	0.8	2.1	40	36	42

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Siemens Healthineers	1				40		
MDH without P5P	1861	42.6	2.5	5.9	43	14	97
신양화학	5				44	44	46
아산제약(주)	17	44.3	2.2	5.0	44	35	50
(주)아이비디랩	14	41.2	1.1	2.5	41	40	43
(주)에스더블유헬스케어(구. 이든하이텍)	4				44	42	47
(주)제이앤티 바이오(구 (주)젠바디)	2					39	42
(주)지디엘코리아	58	45.3	2.1	4.7	45	40	50
(주)티씨엠생명과학	14	44.2	4.4	9.8	45	36	52
Abbott	17	38.4	0.6	1.6	38	37	39
Beckman Coulter Inc.	261	43.9	1.2	2.8	44	39	51
Bion	59	42.4	3.0	7.1	42	32	47
Biosystems	144	42.1	2.9	6.9	42	33	52
Chema Diagnostica	3				40	38	42
Diasys	28	41.6	1.5	3.5	42	39	45
Elitechgroup	20	41.8	3.0	7.2	42	37	48
Erba diagnostics	8				40	37	43
Genematrix(구 진메트릭스바이오)	4				42	39	43
JW바이오사이언스(주)(구 JW중외메디칼)	42	41.7	1.5	3.7	42	39	45
LC Diagnostics	5				43	41	44
PZ Cormay	90	42.1	2.4	5.6	42	34	48
Randox	1				45		
Roche	288	39.8	1.1	2.8	40	28	44
Sekisui Medical	290	44.6	1.5	3.3	44	39	50
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	170	43.0	1.8	4.2	43	37	52
Shino-Test Corporation	101	42.2	1.7	4.0	42	38	46
Siemens Healthineers	41	44.1	1.3	3.0	44	41	46
SNIBE Co.,Ltd	4				43	41	45
Stanbio	25	43.5	2.4	5.5	44	14	55
Thermo Fisher Scientific	10	43.7	2.5	5.6	44	40	48

Wako	136	41.7	2.0	4.7	41	38	97
Other Method	18	40.9	4.0	9.8	42	33	47
(주)대광메디텍	1				42		
주식회사 한랩	1				41		
Beckman Coulter Inc.	1				42		
Others	14	41.0	4.5	10.9	42	33	47
Rayto Life and Analytical Sciences Co., Ltd.	1				38		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1972	106.1	5.6	5.3	107	41	259
Dry chemistry	15	111.8	4.4	3.9	112	103	119
Fujifilm Corporation	1				103		
Ortho Clinical Diagnostics	14	112.4	3.8	3.3	113	106	119
MDH with P5P	78	106.5	2.3	2.2	107	97	111
Roche	77	106.5	2.3	2.1	107	97	111
Siemens Healthineers	1				102		
MDH without P5P	1861	106.1	5.6	5.3	107	41	259
신양화학	5				110	109	111
아산제약(주)	17	111.1	4.0	3.6	111	86	118
(주)아이비디랩	14	99.4	2.4	2.5	100	95	103
(주)에스더블유헬스케어(구. 이든하이텍)	4				108	105	115
(주)제이앤티 바이오(구 (주)젠바디)	2					96	101
(주)지디엘코리아	58	112.7	4.6	4.1	113	101	123
(주)티씨엠생명과학	14	109.2	7.1	6.5	109	84	123
Abbott	17	94.5	1.3	1.4	95	92	97
Beckman Coulter Inc.	261	108.4	2.7	2.5	109	96	120
Bion	59	105.5	6.1	5.8	104	96	134

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Biosystems	144	107.9	6.9	6.4	108	91	208
Chema Diagnostica	3				99	94	102
Diasys	28	102.4	3.2	3.1	103	97	109
Elitechgroup	20	108.0	6.3	5.9	109	94	123
Erba diagnostics	8				102	91	109
Genematrix(구 진매트릭스바이오)	4				103	98	107
JW바이오사이언스(주)(구 JW중외메디칼)	42	106.5	2.9	2.7	107	85	116
LC Diagnostics	5				108	104	114
PZ Cormay	90	108.1	4.9	4.5	109	79	259
Randox	1				116		
Roche	288	100.7	3.2	3.1	100	75	110
Sekisui Medical	290	110.1	3.2	2.9	110	97	121
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	170	106.3	3.8	3.5	107	92	177
Shino-Test Corporation	101	103.8	2.7	2.6	104	93	110
Siemens Healthineers	41	107.8	3.1	2.9	107	97	113
SNIBE Co.,Ltd	4				106	102	110
Stanbio	25	108.9	8.2	7.6	110	43	128
Thermo Fisher Scientific	10	109.0	5.6	5.1	109	99	119
Wako	136	101.3	4.6	4.6	100	41	248
Other Method	18	102.8	5.6	5.5	102	78	114
(주)대광메디텍	1				106		
주식회사 한랩	1				100		
Beckman Coulter Inc.	1				107		
Others	14	103.2	5.7	5.6	102	78	114
Rayto Life and Analytical Sciences Co., Ltd.	1				94		

Blood urea nitrogen (BUN)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1884	68.89	3.74	5.4	69.0	23.9	668.2
Other Method	15	66.20	2.85	4.3	66.3	50.9	79.0
(주)대광메디텍	1				64.3		
주식회사 한랩	1				69.5		
Others	12	67.44	4.75	7.0	67.0	50.9	79.0
Rayto Life and Analytical Sciences Co., Ltd.	1				64.0		
Urease with colorimetry	15	63.83	1.38	2.2	64.0	61.8	75.2
Fujifilm Corporation	1				75.2		
Ortho Clinical Diagnostics	14	63.83	1.38	2.2	64.0	61.8	66.2
Urease with GLDH	1854	68.93	3.70	5.4	69.0	23.9	668.2
신양화학	5				70.9	69.4	71.6
아산제약(주)	16	73.26	5.23	7.1	73.4	62.8	85.6
주식회사 한랩	1				72.7		
(주)아이비디랩	14	69.17	1.79	2.6	69.5	66.2	668.2
(주)에스더블유헬스케어(구. 이든하이텍)	5				68.7	56.8	71.5
(주)제이앤티 바이오(구. 주첸바디)	2					68.1	71.7
(주)지디엘코리아	48	67.46	2.19	3.3	67.3	60.0	76.8
(주)티씨엠생명과학	14	66.76	2.57	3.9	66.5	54.1	70.6
Abbott	17	68.81	1.50	2.2	69.3	66.0	71.0
Beckman Coulter Inc.	254	69.19	1.77	2.6	69.2	62.5	79.0
Bion	56	69.17	3.53	5.1	68.9	58.3	80.0
Biosystems	132	62.00	2.82	4.5	62.2	37.2	138.0
Chema Diagnostica	3				68.5	63.9	69.4
Diasys	31	70.39	2.16	3.1	70.7	51.0	74.6

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Elitechgroup	16	63.80	3.12	4.9	63.0	59.0	69.2
Erba diagnostics	7				69.7	69.0	73.5
Genematrix(구 진메트릭스바이오)	8				64.9	62.2	72.2
JW바이오사이언스(주)(구 JW중외메디칼)	41	72.02	2.20	3.1	72.0	57.0	76.1
LC Diagnostics	4				68.9	58.7	70.5
PZ Cormay	77	65.73	4.70	7.2	65.8	54.0	78.4
Randox	1				69.7		
Roche	358	68.31	1.76	2.6	68.3	58.9	75.0
Sekisui Medical	198	69.31	1.34	1.9	69.3	63.0	79.2
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	161	68.77	2.33	3.4	68.5	60.0	75.1
Shino-Test Corporation	103	69.70	1.65	2.4	70.0	60.2	74.2
Siemens Healthineers	42	68.76	1.64	2.4	69.1	65.5	73.0
SNIBE Co.,Ltd	4				68.5	62.5	73.0
Stanbio	28	61.56	4.55	7.4	60.6	23.9	71.8
Thermo Fisher Scientific	5				64.1	62.0	67.2
Wako	203	74.83	2.85	3.8	74.6	64.2	85.4

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1884	15.05	0.64	4.3	15.0	6.0	41.8
Other Method	15	14.97	0.74	4.9	14.9	14.0	16.4
(주)대광메디텍	1				14.0		
주식회사 한랩	1				15.3		
Others	12	15.10	0.72	4.7	15.0	14.1	16.4
Rayto Life and Analytical Sciences Co., Ltd.	1				14.1		
Urease with colorimetry	15	14.45	0.67	4.7	14.1	13.3	15.7
Fujifilm Corporation	1				15.7		
Ortho Clinical Diagnostics	14	14.36	0.60	4.2	14.1	13.3	15.5

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Urease with GLDH	1854	15.06	0.63	4.2	15.0	6.0	41.8
신양화학	5				15.7	15.2	15.8
아산제약㈜	16	16.23	1.41	8.7	16.5	13.9	19.2
주식회사 한랩	1				14.6		
(주)아이비디랩	14	15.10	0.42	2.8	15.0	14.3	16.1
(주)에스더블유헬스케어(구. 이든하이텍)	5				15.3	12.7	16.4
(주)제이앤티 바이오(구 (주)젠바디)	2					14.6	16.9
(주)지디엘코리아	48	14.96	0.92	6.2	14.9	12.0	17.3
(주)티씨엠생명과학	14	14.45	0.64	4.4	14.5	13.2	15.4
Abbott	17	14.39	0.46	3.2	14.2	13.8	15.4
Beckman Coulter Inc.	254	15.15	0.42	2.8	15.1	13.7	17.4
Bion	56	15.29	0.95	6.2	15.1	10.8	18.1
Biosystems	132	14.26	0.85	6.0	14.3	11.4	33.0
Chema Diagnostica	3				15.1	14.2	15.3
Diasys	31	16.22	0.78	4.8	16.1	14.9	21.9
Elitechgroup	16	15.47	0.85	5.5	15.6	14.0	17.0
Erba diagnostics	7				15.5	13.4	15.8
Genematrix(구 진메트릭스바이오)	8				15.1	13.3	15.8
JW바이오사이언스(주)(구 JW중외메디칼)	41	14.98	0.58	3.9	15.0	9.0	16.0
LC Diagnostics	4				15.0	14.4	15.3
PZ Cormay	77	14.84	0.71	4.8	15.0	12.0	16.5
Randox	1				14.9		
Roche	358	14.84	0.43	2.9	14.8	11.8	16.3
Sekisui Medical	198	15.00	0.34	2.2	15.0	13.0	19.0
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	161	15.32	0.58	3.8	15.3	7.0	18.2
Shino-Test Corporation	103	15.19	0.41	2.7	15.2	13.0	16.1
Siemens Healthineers	42	15.65	0.46	2.9	15.7	14.0	17.0
SNIBE Co.,Ltd	4				14.7	14.0	17.0
Stanbio	28	14.85	1.01	6.8	14.6	6.0	18.5
Thermo Fisher Scientific	5				14.8	12.9	16.0

Wako	203	15.32	0.60	3.9	15.3	13.3	41.8
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	N	Mean	SD	CV(%)	Median	Min	Max
All	1884	39.62	1.76	4.4	39.6	15.3	85.0
Other Method	15	39.01	1.99	5.1	38.1	32.0	43.7
(주)대광메디텍	1				37.4		
주식회사 한랩	1				41.1		
Others	12	39.15	2.01	5.1	38.3	32.0	43.7
Rayto Life and Analytical Sciences Co., Ltd.	1				37.1		
Urease with colorimetry	15	36.73	1.21	3.3	36.8	35.0	42.1
Fujifilm Corporation	1				42.1		
Ortho Clinical Diagnostics	14	36.73	1.21	3.3	36.4	35.0	39.1
Urease with GLDH	1854	39.65	1.73	4.4	39.6	15.3	85.0
신양화학	5				40.2	36.1	41.8
아산제약(주)	16	42.61	3.18	7.5	42.5	36.9	49.7
주식회사 한랩	1				40.2		
(주)아이비디랩	14	39.69	0.84	2.1	40.0	38.0	40.9
(주)에스더블유헬스케어(구. 이든하이텍)	5				39.9	32.7	40.3
(주)제이앤티 바이오(구 (주)젠바디)	2					38.7	41.9
(주)지디엘코리아	48	38.87	1.31	3.4	38.9	36.0	43.7
(주)티씨엠생명과학	14	38.22	2.33	6.1	38.3	32.9	41.7
Abbott	17	38.92	0.94	2.4	39.0	37.7	40.8
Beckman Coulter Inc.	254	39.76	1.08	2.7	39.8	36.1	44.8
Bion	56	39.76	2.27	5.7	39.8	32.3	46.5
Biosystems	132	36.76	1.63	4.4	36.9	25.8	85.0
Chema Diagnostica	3				39.0	38.7	40.5
Diasys	31	41.57	1.63	3.9	41.2	39.0	45.4

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Elitechgroup	16	38.49	1.68	4.4	39.0	35.8	41.5
Erba diagnostics	7				40.9	35.7	45.3
Genematrix(구 진매트릭스바이오)	8				39.7	38.0	42.4
JW바이오사이언스(주)(구 JW중외메디칼)	41	41.37	1.20	2.9	41.1	31.0	44.1
LC Diagnostics	4				39.8	35.5	40.1
PZ Cormay	77	38.73	1.98	5.1	38.7	30.0	44.2
Randox	1				41.5		
Roche	358	39.26	1.03	2.6	39.2	34.8	42.6
Sekisui Medical	198	39.59	0.80	2.0	39.6	36.0	44.6
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	161	39.92	1.45	3.6	40.0	36.0	53.7
Shino-Test Corporation	103	39.86	1.03	2.6	39.9	34.4	42.4
Siemens Healthineers	42	40.16	1.02	2.5	40.1	38.0	43.0
SNIBE Co.,Ltd	4				39.2	37.0	42.0
Stanbio	28	37.26	2.11	5.7	36.9	15.3	41.7
Thermo Fisher Scientific	5				37.8	36.5	39.5
Wako	203	41.57	1.52	3.7	41.6	15.4	77.1



Calcium (Ca)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	862	13.10	0.35	2.7	13.1	11.2	18.0
Colorimetry Arsenazo III	232	13.10	0.43	3.3	13.2	11.2	18.0
(주)아이비디랩	1				13.4		
(주)제이앤티 바이오(구 (주)젠바디)	1				12.5		
Abbott	17	13.17	0.21	1.6	13.2	12.3	14.1
Beckman Coulter Inc.	92	13.31	0.18	1.4	13.3	12.3	14.3
Bion	2					12.2	12.7
Biosystems	25	12.93	0.27	2.1	13.0	12.4	14.4
Diasys	2					13.0	14.3
Elitechgroup	3				13.2	13.0	13.5
JW바이오사이언스(주)(구 JW중외메디칼)	28	12.66	0.54	4.3	12.7	11.2	13.5
Ortho Clinical Diagnostics	5				12.8	12.7	13.3
PZ Cormay	6				13.4	12.0	13.8
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	43	12.94	0.37	2.8	12.9	11.6	13.6
Siemens Healthineers	4				13.2	12.9	13.6
Stanbio	2					12.1	18.0
Thermo Fisher Scientific	1				11.8		
Colorimetry_Chlorophosphonazo III	1				13.1		
Kanto Chemical Co., Inc.	1				13.1		
Colorimetry_Methylxlenol blue	109	12.92	0.25	2.0	12.9	11.9	13.7
Wako	109	12.92	0.25	2.0	12.9	11.9	13.7
Colorimetry_OCPC	245	12.98	0.38	3.0	13.0	11.6	14.5
아산제약(주)	3				12.6	12.5	12.9
(주)지디엘코리아	8				12.8	12.4	13.3

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(주)씨엠생명과학	1				12.0		
Beckman Coulter Inc.	57	13.23	0.26	2.0	13.3	12.4	13.7
Genematrix(구 진매트릭스바이오)	3				12.9	12.5	13.2
Sekisui Medical	75	12.75	0.37	2.9	12.8	11.6	14.5
Siemens Healthineers	36	13.28	0.23	1.8	13.3	12.5	13.9
Wako	62	12.85	0.27	2.1	12.9	11.6	14.1
NM-BAPTA	249	13.31	0.17	1.3	13.3	12.5	14.2
Roche	249	13.31	0.17	1.3	13.3	12.5	14.2
Other Method	26	12.69	0.31	2.4	12.8	12.2	13.3
Others	1				12.8		
Shino-Test Corporation	25	12.69	0.31	2.5	12.7	12.2	13.3

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	N	Mean	SD	CV(%)	Median	Min	Max
All	862	5.83	0.23	4.0	5.9	4.8	61.6
Colorimetry Arsenazo III	232	5.87	0.23	3.9	5.9	4.9	15.1
(주)아이비디랩	1				6.2		
(주)제이앤티 바이오(구 (주)젠바디)	1				6.3		
Abbott	17	5.93	0.11	1.8	5.9	5.4	6.1
Beckman Coulter Inc.	92	5.96	0.10	1.6	6.0	5.6	6.5
Bion	2					5.4	5.6
Biosystems	25	5.60	0.21	3.7	5.6	5.2	7.4
Diasys	2					5.6	6.1
Elitechgroup	3				6.1	5.9	6.3
JW바이오사이언스(주)(구 JW중외메디칼)	28	5.69	0.32	5.6	5.7	4.9	6.1
Ortho Clinical Diagnostics	5				5.5	5.4	5.8
PZ Cormay	6				6.4	6.3	7.7
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	43	5.85	0.20	3.4	5.8	5.0	15.1

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Siemens Healthineers	4				5.9	5.8	6.3
Stanbio	2					7.0	9.0
Thermo Fisher Scientific	1				5.6		
Colorimetry_Chlorophosphonazo III	1				6.0		
Kanto Chemical Co., Inc.	1				6.0		
Colorimetry_Methylxlenol blue	109	5.73	0.13	2.3	5.7	5.3	6.7
Wako	109	5.73	0.13	2.3	5.7	5.3	6.7
Colorimetry_OCPC	245	5.66	0.26	4.6	5.6	4.8	6.9
아산제약주)	3				5.6	5.5	6.8
(주)지디엘코리아	8				5.4	4.8	5.5
(주)티씨엠생명과학	1				5.5		
Beckman Coulter Inc.	57	5.95	0.14	2.3	6.0	5.4	6.9
Genematrix(구 진매트릭스바이오)	3				5.7	5.5	5.9
Sekisui Medical	75	5.51	0.25	4.6	5.5	5.0	6.2
Siemens Healthineers	36	5.69	0.13	2.2	5.7	5.5	6.0
Wako	62	5.61	0.16	2.8	5.6	5.0	6.4
NM-BAPTA	249	6.00	0.11	1.8	6.0	5.2	61.6
Roche	249	6.00	0.11	1.8	6.0	5.2	61.6
Other Method	26	5.79	0.18	3.2	5.8	5.3	6.1
Others	1				5.6		
Shino-Test Corporation	25	5.82	0.16	2.7	5.8	5.3	6.1

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	N	Mean	SD	CV(%)	Median	Min	Max
All	862	9.82	0.29	3.0	9.9	8.2	12.3
Colorimetry Arsenazo III	232	9.87	0.31	3.1	9.9	8.2	12.3
(주)아이비디랩	1				11.6		
(주)제이앤티 바이오(구 (주)젤바디)	1				9.9		

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Abbott	17	9.79	0.15	1.5	9.8	9.2	10.0
Beckman Coulter Inc.	92	9.99	0.14	1.4	10.0	9.3	10.8
Bion	2					9.1	9.2
Biosystems	25	9.65	0.24	2.5	9.7	9.2	10.8
Diasys	2					9.7	10.6
Elitechgroup	3				9.6	9.6	10.2
JW바이오사이언스(주)(구 JW중외메디칼)	28	9.56	0.39	4.1	9.6	8.2	10.3
Ortho Clinical Diagnostics	5				9.7	9.6	10.0
PZ Cormay	6				10.4	10.1	10.7
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	43	9.86	0.29	3.0	9.8	8.7	10.4
Siemens Healthineers	4				10.0	9.7	10.1
Stanbio	2					10.8	12.3
Thermo Fisher Scientific	1				8.9		
Colorimetry_Chlorophosphonazo III	1				9.8		
Kanto Chemical Co., Inc.	1				9.8		
Colorimetry_Methylxlenol blue	109	9.66	0.16	1.7	9.6	9.1	10.1
Wako	109	9.66	0.16	1.7	9.6	9.1	10.1
Colorimetry_OCPC	245	9.66	0.33	3.5	9.7	8.6	10.7
아산제약(주)	3				9.8	9.5	9.9
(주)지디엘코리아	8				9.3	9.1	9.9
(주)티씨엠생명과학	1				9.2		
Beckman Coulter Inc.	57	9.93	0.16	1.6	9.9	9.2	10.6
Genematrix(구 진매트릭스바이오)	3				9.6	9.3	9.7
Sekisui Medical	75	9.45	0.28	2.9	9.5	8.6	10.7
Siemens Healthineers	36	9.87	0.18	1.9	9.9	9.5	10.2
Wako	62	9.61	0.24	2.6	9.6	8.8	10.5
NM-BAPTA	249	10.03	0.13	1.3	10.0	9.4	10.7
Roche	249	10.03	0.13	1.3	10.0	9.4	10.7
Other Method	26	9.68	0.26	2.7	9.7	9.0	10.1
Others	1				9.6		



대한진단검사정도관리협회
Korean Association of External Quality Assessment Service

Chloride (Cl)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1258	121.2	3.2	2.7	121	99	144
ISE, diluted	731	119.2	1.7	1.4	119	99	132
A&T	1				122		
Abbott	16	117.8	1.0	0.9	118	116	120
Beckman Coulter Inc.	150	117.6	1.0	0.8	118	115	122
Denka Seiken	46	118.1	1.1	0.9	118	116	121
Diamond diagnostics	13	121.5	2.0	1.6	122	99	132
JEOL	4				121	120	121
Roche	252	118.7	1.0	0.9	119	113	124
Sekisui Medical	199	120.5	1.0	0.8	121	117	125
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	10	121.7	2.8	2.3	122	118	127
Siemens Healthineers	40	120.9	1.1	0.9	121	119	123
ISE, undiluted	514	124.2	2.2	1.8	125	115	144
(주)아이센스	274	125.1	1.1	0.9	125	117	134
BioCARE	8				123	120	127
Biosystems	32	124.4	3.1	2.5	124	118	133
Caretium Medical Instruments	39	122.7	2.6	2.1	123	117	137
CORNLEY HI-TECH CO., LTD	6				126	124	144
Fujifilm Corporation	5				128	126	130
Jokoh Co., Ltd.	20	124.2	2.7	2.2	125	115	130
MEDICA Corp.	26	123.3	1.4	1.1	124	120	129
Nova Biomedical Corporation	6				122	118	126
Ortho Clinical Diagnostics	6				122	119	122
Roche	71	122.6	2.2	1.8	123	117	132

Siemens Healthineers	21	125.5	3.9	3.1	125	119	133
Other Method	13	122.5	2.5	2.0	123	117	126
Canon Medical Systems (주) Toshiba Medical Systems)	1				117		
Caretium Medical Instruments	1				124		
Hitachi high-technologies corporation	1				122		
Nova Biomedical Corporation	1				126		
Others	7				123	121	126
Sekisui Medical	1				120		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				121		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1258	76.0	2.4	3.2	76	13	91
ISE, diluted	731	74.8	1.7	2.3	75	64	86
A&T	1				77		
Abbott	16	76.4	1.1	1.5	76	75	79
Beckman Coulter Inc.	150	75.4	0.7	0.9	75	72	86
Denka Seiken	46	76.4	1.1	1.5	76	74	79
Diamond diagnostics	13	76.2	2.3	3.0	77	72	80
JEOL	4				77	75	77
Roche	252	73.3	1.3	1.7	73	64	78
Sekisui Medical	199	74.9	0.9	1.2	75	70	82
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	10	76.4	1.5	2.0	77	74	79
Siemens Healthineers	40	78.1	1.5	2.0	78	75	82
ISE, undiluted	514	77.7	2.1	2.7	78	13	91
(주)아이센스	274	78.3	1.2	1.6	78	13	83
BioCARE	8				76	74	76
Biosystems	32	75.3	1.2	1.7	75	73	78

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Caretium Medical Instruments	39	79.3	1.7	2.1	79	75	85
CORNLEY HI-TECH CO., LTD	6				79	75	83
Fujifilm Corporation	5				76	76	79
Jokoh Co., Ltd.	20	75.6	1.9	2.5	75	69	80
MEDICA Corp.	26	76.2	1.9	2.4	77	72	80
Nova Biomedical Corporation	6				80	76	83
Ortho Clinical Diagnostics	6				76	75	77
Roche	71	76.8	3.1	4.0	76	70	91
Siemens Healthineers	21	78.2	1.9	2.4	78	76	83
Other Method	13	75.1	1.4	1.8	75	73	89
Canon Medical Systems (ㄱ Toshiba Medical Systems)	1				77		
Caretium Medical Instruments	1				78		
Hitachi high-technologies corporation	1				75		
Nova Biomedical Corporation	1				89		
Others	7				75	74	76
Sekisui Medical	1				73		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				75		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1258	98.0	2.4	2.5	98	10	124
ISE, diluted	731	96.6	1.5	1.5	97	91	124
A&T	1				100		
Abbott	16	97.4	0.9	0.9	97	96	99
Beckman Coulter Inc.	150	96.6	0.7	0.8	97	94	99
Denka Seiken	46	97.0	0.9	0.9	97	95	100
Diamond diagnostics	13	98.1	2.2	2.3	98	95	124
JEOL	4				98	97	100

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Roche	252	95.4	1.0	1.1	95	91	101
Sekisui Medical	199	97.2	0.9	0.9	97	94	102
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	10	98.7	1.5	1.5	99	96	101
Siemens Healthineers	40	99.4	1.4	1.4	99	97	103
ISE, undiluted	514	100.1	1.7	1.7	100	10	111
(주)아이센스	274	100.9	1.1	1.0	101	10	107
BioCARE	8				99	95	101
Biosystems	32	98.6	1.4	1.4	99	96	103
Caretium Medical Instruments	39	99.9	1.4	1.4	100	97	109
CORNLEY HI-TECH CO., LTD	6				101	98	111
Fujifilm Corporation	5				97	96	99
Jokoh Co., Ltd.	20	98.4	1.4	1.5	98	95	101
MEDICA Corp.	26	99.4	1.5	1.5	99	96	103
Nova Biomedical Corporation	6				101	98	103
Ortho Clinical Diagnostics	6				99	96	100
Roche	71	98.7	2.2	2.2	99	93	108
Siemens Healthineers	21	100.8	2.6	2.6	100	98	106
Other Method	13	97.6	1.1	1.1	97	96	107
Canon Medical Systems (주) Toshiba Medical Systems)	1				97		
Caretium Medical Instruments	1				100		
Hitachi high-technologies corporation	1				98		
Nova Biomedical Corporation	1				107		
Others	7				97	97	99
Sekisui Medical	1				96		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				97		

Creatine kinase (CK)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	822	611.7	23.3	3.8	608	368	812
Creatine phosphate to Creatine	330	614.7	17.6	2.9	615	474	686
아산제약(주)	10	610.8	17.7	2.9	615	571	632
(주)제이엔티 바이오(구 (주)젠바디)	1				517		
Beckman Coulter Inc.	1				647		
Biosystems	26	588.1	47.4	8.1	593	487	686
Diasys	3				631	622	655
Genematrix(구 진매트릭스바이오)	1				626		
JW바이오사이언스(주)(구 JW중외메디칼)	27	627.8	27.7	4.4	630	520	683
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	5				630	539	664
Shino-Test Corporation	113	615.0	12.6	2.0	615	556	647
Thermo Fisher Scientific	2					474	614
Wako	141	612.6	13.7	2.2	612	554	670
Creatine phosphate to Creatine with activator	484	609.6	26.0	4.3	602	530	812
신양화학	2					599	621
(주)지디엘코리아	9				652	543	812
(주)티씨엠생명과학	2					711	733
Abbott	16	613.3	9.1	1.5	612	596	630
Beckman Coulter Inc.	140	636.9	15.1	2.4	638	588	705
Elitechgroup	2					562	653
Erba diagnostics	1				610		
LC Diagnostics	2					608	620
PZ Cormay	10	562.0	18.3	3.3	565	535	665
Roche	215	594.0	8.2	1.4	595	555	629

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Sekisui Medical	13	633.3	22.7	3.6	633	596	677
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	24	618.5	24.5	4.0	618	530	660
Siemens Healthineers	40	590.6	11.0	1.9	590	565	613
SNIBE Co.,Ltd	1				630		
Stanbio	7				582	535	624
Dry chemistry	6				393	368	409
Ortho Clinical Diagnostics	6				393	368	409
Other Method	2					580	665
Biosystems	1				665		
Others	1				580		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	822	72.3	2.5	3.4	72	52	104
Creatine phosphate to Creatine	330	72.5	2.5	3.5	72	52	86
아산제약(주)	10	72.9	3.6	4.9	75	66	77
(주)제이엔티 바이오(구 (주)젠바디)	1				64		
Beckman Coulter Inc.	1				77		
Biosystems	26	69.1	5.3	7.7	70	52	78
Diasys	3				78	72	83
Genematrix(구 진메트릭스바이오)	1				80		
JW바이오사이언스(주)(구 JW중외메디칼)	27	77.2	3.8	4.9	77	64	86
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	5				75	73	75
Shino-Test Corporation	113	71.8	1.7	2.4	72	65	77
Thermo Fisher Scientific	2					59	72
Wako	141	72.5	2.0	2.8	73	64	83
Creatine phosphate to Creatine with activator	484	72.2	2.2	3.1	72	54	104
신양화학	2					71	75

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㈜지디엘코리아	9				80	69	104
㈜티씨엠생명과학	2					81	88
Abbott	16	72.4	1.1	1.5	72	71	74
Beckman Coulter Inc.	140	72.5	2.3	3.1	72	64	85
Elitechgroup	2					65	76
Erba diagnostics	1				69		
LC Diagnostics	2					71	74
PZ Cormay	10	66.7	3.1	4.7	67	54	71
Roche	215	72.6	1.3	1.9	73	64	79
Sekisui Medical	13	73.3	2.9	4.0	74	69	79
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	24	71.1	3.9	5.5	71	64	80
Siemens Healthineers	40	68.9	2.3	3.3	69	64	73
SNIBE Co.,Ltd	1				72		
Stanbio	7				68	62	76
Dry chemistry	6				66	62	70
Ortho Clinical Diagnostics	6				66	62	70
Other Method	2					73	74
Biosystems	1				74		
Others	1				73		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	822	256.9	9.5	3.7	255	175	608
Creatine phosphate to Creatine	330	256.9	7.6	2.9	257	175	608
아산제약㈜	10	256.7	7.3	2.9	259	244	266
(주)제이앤디 바이오(구 (주)젠바디)	1				222		
Beckman Coulter Inc.	1				272		
Biosystems	26	248.6	18.8	7.6	246	175	608

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Diasys	3				272	262	273
Genematrix(구 진매트릭스바이오)	1				271		
JW바이오사이언스(주)(구 JW중외메디칼)	27	264.7	12.7	4.8	265	238	291
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	5				266	265	433
Shino-Test Corporation	113	256.9	5.4	2.1	257	232	269
Thermo Fisher Scientific	2					199	260
Wako	141	256.3	5.9	2.3	256	232	277
Creatine phosphate to Creatine with activator	484	256.8	10.7	4.2	253	227	343
신양화학	2					250	265
(주)지디엘코리아	9				274	235	343
(주)티씨엠생명과학	2					304	305
Abbott	16	255.6	4.0	1.6	255	250	262
Beckman Coulter Inc.	140	267.8	6.7	2.5	269	246	291
Elitechgroup	2					241	278
Erba diagnostics	1				263		
LC Diagnostics	2					252	269
PZ Cormay	10	235.6	7.7	3.3	236	227	252
Roche	215	250.9	3.5	1.4	251	239	265
Sekisui Medical	13	265.8	9.8	3.7	267	251	283
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	24	259.3	12.2	4.7	261	227	283
Siemens Healthineers	40	249.9	4.6	1.8	251	235	261
SNIBE Co.,Ltd	1				273		
Stanbio	7				243	234	253
Dry chemistry	6				196	186	202
Ortho Clinical Diagnostics	6				196	186	202
Other Method	2					252	270
Biosystems	1				270		
Others	1				252		

Direct bilirubin (D-BIL)

CC-25-01

	N	Mean	SD	CV(%)	Median	Min	Max
All	903	2.649	0.427	16.1	2.60	1.00	4.26
Copper ion Oxidation	45	2.509	0.277	11.0	2.57	2.05	3.26
신양화학	1				2.61		
아산제약㈜	3				2.50	2.40	2.60
영인과학	1				2.56		
(주)지디엘코리아	15	2.237	0.146	6.5	2.19	2.10	2.84
(주)티씨엠생명과학	2					2.05	2.54
Bion	6				2.58	2.10	3.26
Genematrix(구 진매트릭스바이오)	1				3.23		
JW바이오사이언스(주)(구 JW중외메디칼)	16	2.633	0.087	3.3	2.62	2.50	2.80
Diazonium salt with blank	467	2.952	0.324	11.0	3.05	1.98	4.26
Abbott	14	2.694	0.141	5.2	2.64	2.48	2.98
Beckman Coulter Inc.	162	2.596	0.092	3.5	2.60	1.98	2.92
Biosystems	30	2.974	0.254	8.5	2.96	2.40	4.26
Diasys	7				2.70	2.50	2.82
Roche	254	3.200	0.136	4.3	3.18	2.51	3.80
Diazo-Sulfanilic acid with blank	11	2.010	0.537	26.7	2.02	1.20	2.90
아산제약㈜	1				1.67		
(주)지디엘코리아	1				2.48		
Erba diagnostics	2					1.20	1.25
LC Diagnostics	1				1.81		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	3				2.60	2.30	2.90
Siemens Healthineers	1				1.80		
Stanbio	2					2.02	2.08

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Diazo-Sulfanilic acid without blank	3				2.51	2.00	2.90
(주)아이비디랩	1				2.00		
Beckman Coulter Inc.	2					2.51	2.90
Other Method	8				2.25	1.00	3.00
주식회사 한랩	1				2.45		
Ortho Clinical Diagnostics	3				2.60	2.00	3.00
Others	3				1.90	1.00	2.10
Thermo Fisher Scientific	1				2.40		
Vanadate oxidation	369	2.296	0.188	8.2	2.26	1.60	3.18
주식회사 한랩	1				2.33		
(주)제이앤티 바이오(구 (주)젠바디)	1				2.20		
PZ Cormay	10	1.986	0.312	15.7	1.95	1.60	2.50
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	26	2.581	0.087	3.4	2.60	2.40	3.18
Siemens Healthineers	41	2.644	0.231	8.8	2.64	2.07	3.10
Wako	290	2.237	0.123	5.5	2.21	1.80	3.16

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	N	Mean	SD	CV(%)	Median	Min	Max
All	903	0.302	0.052	17.4	0.30	0.10	3.00
Copper ion Oxidation	45	0.278	0.041	14.7	0.29	0.14	3.00
신양화학	1				0.22		
아산제약(주)	3				0.30	0.30	0.30
영인과학	1				0.28		
(주)지디엘코리아	15	0.226	0.051	22.4	0.23	0.14	3.00
(주)티씨엠생명과학	2					0.21	0.29
Bion	6				0.30	0.27	0.39
Genematrix(구 진메트릭스바이오)	1				0.14		
JW바이오사이언스(주)(구 JW중외메디칼)	16	0.293	0.009	3.2	0.30	0.27	0.30

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Diazonium salt with blank	467	0.331	0.040	12.2	0.32	0.10	3.00
Abbott	14	0.312	0.022	7.1	0.31	0.29	0.37
Beckman Coulter Inc.	162	0.300	0.012	3.9	0.30	0.20	3.00
Biosystems	30	0.222	0.062	28.1	0.21	0.10	0.39
Diasys	7				0.30	0.28	0.32
Roche	254	0.356	0.033	9.4	0.35	0.20	0.42
Diazo-Sulfanilic acid with blank	11	0.250	0.090	36.1	0.29	0.10	0.35
아산제약(주)	1				0.29		
(주)지디엘코리아	1				0.34		
Erba diagnostics	2					0.10	0.16
LC Diagnostics	1				0.35		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	3				0.30	0.30	0.30
Siemens Healthineers	1				0.10		
Stanbio	2					0.23	0.28
Diazo-Sulfanilic acid without blank	3				0.30	0.27	0.30
(주)아이비디랩	1				0.30		
Beckman Coulter Inc.	2					0.27	0.30
Other Method	8				0.30	0.10	0.50
주식회사 한랩	1				0.30		
Ortho Clinical Diagnostics	3				0.40	0.30	0.50
Others	3				0.20	0.10	0.20
Thermo Fisher Scientific	1				0.40		
Vanadate oxidation	369	0.273	0.042	15.3	0.28	0.16	3.00
주식회사 한랩	1				0.28		
(주)제이앤티 바이오(구 (주)젠바디)	1				0.30		
PZ Cormay	10	0.234	0.043	18.4	0.22	0.20	0.30
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	26	0.322	0.032	9.9	0.31	0.29	3.00
Siemens Healthineers	41	0.321	0.034	10.7	0.32	0.25	0.40
Wako	290	0.263	0.034	12.9	0.26	0.16	0.49

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	N	Mean	SD	CV(%)	Median	Min	Max
All	903	1.456	0.266	18.3	1.47	0.68	5.40
Copper ion Oxidation	45	1.304	0.144	11.0	1.31	1.04	1.69
신양화학	1				1.32		
아산제약주	3				1.30	1.30	1.40
영인과학	1				1.42		
(주)지디엘코리아	15	1.167	0.109	9.3	1.12	1.05	1.42
(주)티씨엠생명과학	2					1.04	1.24
Bion	6				1.38	1.20	1.69
Genematrix(구 진매트릭스바이오)	1				1.38		
JW바이오사이언스(주)(구 JW중외메디칼)	16	1.385	0.053	3.8	1.40	1.30	1.50
Diazonium salt with blank	467	1.667	0.153	9.2	1.70	1.18	5.40
Abbott	14	1.494	0.081	5.5	1.47	1.43	1.66
Beckman Coulter Inc.	162	1.523	0.050	3.3	1.52	1.18	1.70
Biosystems	30	1.555	0.164	10.6	1.54	1.20	5.40
Diasys	7				1.50	1.37	1.57
Roche	254	1.791	0.072	4.0	1.78	1.41	2.00
Diazo-Sulfanilic acid with blank	11	1.103	0.281	25.5	1.13	0.68	1.50
아산제약주	1				0.97		
(주)지디엘코리아	1				1.44		
Erba diagnostics	2					0.68	0.70
LC Diagnostics	1				1.01		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	3				1.40	1.20	1.50
Siemens Healthineers	1				0.90		
Stanbio	2					1.13	1.20
Diazo-Sulfanilic acid without blank	3				1.47	1.10	1.70
(주)아이비디랩	1				1.10		
Beckman Coulter Inc.	2					1.47	1.70

Other Method	8				1.23	0.80	1.50
주식회사 한랩	1				1.25		
Ortho Clinical Diagnostics	3				1.30	1.20	1.50
Others	3				1.10	0.80	1.10
Thermo Fisher Scientific	1				1.40		
Vanadate oxidation	369	1.213	0.112	9.2	1.20	0.90	1.74
주식회사 한랩	1				1.23		
(주)제이앤티 바이오(구 (주)젠바디)	1				1.20		
PZ Cormay	10	1.073	0.151	14.1	1.05	0.90	1.30
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	26	1.406	0.054	3.8	1.40	1.30	1.74
Siemens Healthineers	41	1.397	0.124	8.9	1.39	1.09	1.64
Wako	290	1.179	0.074	6.3	1.19	1.00	1.63



Ethanol (Alcohol) (신규, 시범)

CC-25-01

	N	Mean	SD	CV(%)	Median	Min	Max
All	42	194.66	8.51	4.4	193.5	176.3	734.1
Enzymatic assay	28	193.53	5.90	3.1	193.1	185.8	734.1
Roche	28	193.53	5.90	3.1	193.1	185.8	734.1
Other Method	14	196.85	12.06	6.1	194.5	176.3	220.3
Ortho Clinical Diagnostics	1				199.0		
Others	8				192.2	176.3	203.2
Siemens Healthineers	5				209.0	193.0	220.3

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	N	Mean	SD	CV(%)	Median	Min	Max
All	42	20.73	1.61	7.8	20.9	17.0	198.5
Enzymatic assay	28	20.72	1.10	5.3	20.9	18.3	198.5
Roche	28	20.72	1.10	5.3	20.9	18.3	198.5
Other Method	14	22.52	5.14	22.8	21.0	17.0	36.2
Ortho Clinical Diagnostics	1				22.0		
Others	8				20.7	17.1	36.2
Siemens Healthineers	5				23.8	17.0	29.9

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	N	Mean	SD	CV(%)	Median	Min	Max
All	42	75.76	3.51	4.6	75.4	66.2	515.6

Enzymatic assay	28	75.97	2.97	3.9	75.3	66.2	515.6
Roche	28	75.97	2.97	3.9	75.3	66.2	515.6
Other Method	14	78.12	6.24	8.0	76.4	69.6	91.4
Ortho Clinical Diagnostics	1				76.0		
Others	8				75.3	69.6	89.3
Siemens Healthineers	5				80.9	73.0	91.4



대한진단검사정도관리협회
Korean Association of External Quality Assessment Service

Gamma-glutamyl transferase (GGT)

CC-25-01

	N	Mean	SD	CV(%)	Median	Min	Max
All	1916	129.4	7.4	5.7	130	47	427
Gamma-glutamyl-carboxy-nitroanilide	1870	129.4	7.4	5.7	130	47	427
신양화학	2					121	125
아산제약(주)	15	134.3	4.9	3.7	135	123	143
(주)아이비디랩	14	128.8	2.4	1.9	130	123	148
(주)에스더블유헬스케어(구. 이든하이텍)	4				132	130	136
(주)제이앤티 바이오(구 (주)젠바디)	3				116	113	142
(주)지디엘코리아	56	127.0	4.4	3.4	127	117	137
(주)티씨엠생명과학	12	127.5	3.3	2.6	127	122	146
Abbott	15	132.6	3.2	2.4	131	128	140
Beckman Coulter Inc.	257	116.1	2.3	2.0	116	98	148
Bion	56	139.8	5.0	3.6	140	123	161
Biosystems	138	132.5	5.4	4.1	132	121	427
Diasys	28	129.0	3.7	2.8	129	113	137
Elitechgroup	17	133.6	5.9	4.4	133	114	146
Genematrix(구 진메트릭스바이오)	4				131	122	155
JW바이오사이언스(주)(구 JW중외메디칼)	43	146.7	4.2	2.9	147	125	164
LC Diagnostics	5				125	120	134
PZ Cormay	76	126.6	4.5	3.5	126	104	139
Roche	356	131.6	2.7	2.1	131	110	143
Sekisui Medical	291	132.1	2.6	2.0	132	116	143
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	163	128.7	3.1	2.4	129	105	141
Shino-Test Corporation	100	133.6	3.3	2.4	134	126	151
Siemens Healthineers	42	135.7	2.3	1.7	136	124	155

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SNIBE Co.,Ltd	2					128	131
Stanbio	35	125.6	6.6	5.3	127	47	134
Thermo Fisher Scientific	9				132	113	138
Wako	127	130.5	2.8	2.1	130	61	150
Gamma-glutamyl-p-nitroanilide	15	123.5	8.1	6.5	124	112	142
Beckman Coulter Inc.	4				116	112	118
Chema Diagnostica	3				124	116	126
Erba diagnostics	8				128	118	142
Gamma-glutamyl-p-nitroanilide (Dry chemistry)	14	166.9	5.2	3.1	166	159	179
Fujifilm Corporation	1				176		
Ortho Clinical Diagnostics	13	165.1	2.8	1.7	165	159	179
Other Method	17	128.6	5.9	4.5	129	115	140
(주)대광메디텍	1				129		
주식회사 한랩	1				128		
Beckman Coulter Inc.	1				115		
Others	13	129.7	5.4	4.1	130	120	140
Rayto Life and Analytical Sciences Co., Ltd.	1				129		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1916	27.9	1.7	6.2	28	12	84
Gamma-glutamyl-carboxy-nitroanilide	1870	27.9	1.7	6.1	28	12	84
신양화학	2					27	27
아산제약(주)	15	29.5	1.9	6.4	29	27	33
(주)아이비디랩	14	28.9	1.2	4.2	29	27	31
(주)에스더블유헬스케어(구. 이든하이텍)	4				29	28	30
(주)제이앤티 바이오(구. 쥘바디)	3				26	25	32
(주)지디엘코리아	56	28.3	2.0	7.1	28	25	34

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(주)티씨엠생명과학	12	27.5	1.5	5.5	27	26	38
Abbott	15	28.0	0.9	3.1	28	27	34
Beckman Coulter Inc.	257	25.0	0.8	3.0	25	22	31
Bion	56	29.0	1.6	5.7	29	25	33
Biosystems	138	28.5	1.4	4.8	28	22	74
Diasys	28	27.3	1.2	4.5	27	25	30
Elitechgroup	17	29.7	2.0	6.6	30	26	34
Genematrix(구 진매트릭스바이오)	4				28	27	34
JW바이오사이언스(주)(구 JW중외메디칼)	43	30.7	1.1	3.7	31	25	63
LC Diagnostics	5				27	23	28
PZ Cormay	76	28.3	1.4	4.8	28	23	32
Roche	356	28.1	0.9	3.3	28	23	31
Sekisui Medical	291	28.3	0.8	2.8	28	25	31
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	163	28.1	1.0	3.4	28	22	31
Shino-Test Corporation	100	28.7	0.9	3.2	29	25	32
Siemens Healthineers	42	30.5	1.1	3.5	30	24	38
SNIBE Co.,Ltd	2					28	28
Stanbio	35	28.3	1.9	6.8	28	12	33
Thermo Fisher Scientific	9				28	27	32
Wako	127	28.6	0.9	3.3	29	13	84
Gamma-glutamyl-p-nitroanilide	15	27.3	2.4	8.8	27	24	32
Beckman Coulter Inc.	4				25	24	26
Chema Diagnostica	3				27	25	28
Erba diagnostics	8				29	25	32
Gamma-glutamyl-p-nitroanilide (Dry chemistry)	14	34.5	1.2	3.5	35	32	37
Fujifilm Corporation	1				35		
Ortho Clinical Diagnostics	13	34.5	1.3	3.7	34	32	37
Other Method	17	28.3	2.5	8.9	28	25	48
(주)대광메디텍	1				30		
주식회사 한랩	1				29		

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Beckman Coulter Inc.	1				25		
Others	13	28.5	2.7	9.4	28	25	48
Rayto Life and Analytical Sciences Co., Ltd.	1				27		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1916	81.6	4.8	5.9	82	29	230
Gamma-glutamyl-carboxy-nitroanilide	1870	81.6	4.7	5.8	82	29	230
신양화학	2					78	78
아산제약(주)	15	85.4	2.0	2.4	85	77	89
(주)아이비디랩	14	80.8	2.0	2.4	82	78	98
(주)에스더블유헬스케어(구. 이든하이텍)	4				81	80	87
(주)제이앤티 바이오(구. 쥘젠바디)	3				73	72	92
(주)지디엘코리아	56	80.6	2.1	2.6	80	73	86
(주)티씨엠생명과학	12	81.6	4.0	4.9	80	77	90
Abbott	15	82.9	1.6	1.9	83	80	89
Beckman Coulter Inc.	257	72.8	1.5	2.0	73	61	94
Bion	56	87.5	3.5	4.0	88	78	100
Biosystems	138	84.0	3.3	4.0	84	78	230
Diasys	28	81.5	1.9	2.4	81	70	86
Elitechgroup	17	84.0	3.1	3.7	84	73	91
Genematrix(구. 진메트릭스바이오)	4				83	77	97
JW바이오사이언스(주)(구 JW중외메디칼)	43	92.7	3.2	3.4	93	82	102
LC Diagnostics	5				80	76	83
PZ Cormay	76	81.0	2.8	3.4	81	66	88
Roche	356	83.1	1.9	2.3	83	69	92
Sekisui Medical	291	83.2	1.7	2.1	83	73	92
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	163	81.3	2.5	3.0	81	69	101

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Shino-Test Corporation	100	84.0	2.0	2.4	84	78	114
Siemens Healthineers	42	85.4	1.9	2.3	85	78	96
SNIBE Co.,Ltd	2					79	82
Stanbio	35	81.0	3.2	3.9	81	33	87
Thermo Fisher Scientific	9				83	73	88
Wako	127	82.1	1.7	2.1	82	29	130
Gamma-glutamyl-p-nitroanilide	15	79.6	6.4	8.0	81	69	90
Beckman Coulter Inc.	4				73	69	74
Chema Diagnostica	3				81	73	84
Erba diagnostics	8				83	78	90
Gamma-glutamyl-p-nitroanilide (Dry chemistry)	14	114.0	3.3	2.9	115	107	121
Fujifilm Corporation	1				107		
Ortho Clinical Diagnostics	13	114.5	1.3	1.1	115	109	121
Other Method	17	82.4	6.1	7.4	82	72	96
(주)대광메디텍	1				82		
주식회사 한랩	1				79		
Beckman Coulter Inc.	1				72		
Others	13	83.7	6.0	7.2	83	76	96
Rayto Life and Analytical Sciences Co., Ltd.	1				79		



High density lipoprotein cholesterol (HDL-C)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1838	57.8	10.0	17.3	62	20	92
Enzymatic with detergent	1132	62.6	5.4	8.6	63	33	92
신양화학	1				58		
아산제약(주)	15	53.7	6.9	12.7	52	45	66
영인과학	3				58	57	67
(주)아이비디랩	9				62	33	68
(주)제이앤티 바이오(구 (주)젠바디)	8				64	54	74
(주)지디엘코리아	45	52.5	3.8	7.3	52	42	61
(주)티씨엠생명과학	3				57	57	58
Abbott	15	62.8	1.5	2.4	63	60	68
Beckman Coulter Inc.	151	66.1	2.3	3.5	66	53	75
Bion	58	61.7	2.7	4.3	62	41	74
Biosystems	130	64.4	4.4	6.8	64	52	92
Chema Diagnostica	3				62	46	66
Erba diagnostics	7				55	42	90
Genematrix(구 진메트릭스바이오)	6				50	37	75
JW바이오사이언스(주)(구 JW중외메디칼)	48	66.9	5.4	8.1	66	55	81
PZ Cormay	41	69.3	3.8	5.5	70	61	86
Sekisui Medical	427	63.0	2.3	3.7	63	49	76
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	120	54.1	3.3	6.1	55	45	71
Siemens Healthineers	40	66.4	2.7	4.1	66	51	71
SNIBE Co.,Ltd	2					65	66
Enzymatic with electrostatic	17	40.6	0.7	1.8	41	38	41
Minaris Medical co., Ltd	17	40.6	0.7	1.8	41	38	41

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Enzymatic with immunoinhibition	84	66.9	2.9	4.3	67	39	74
Beckman Coulter Inc.	71	66.9	2.9	4.4	67	39	74
Diasys	13	67.2	2.7	4.1	67	40	72
Enzymatic with others	132	53.1	6.5	12.2	51	38	79
(주)신화메디	3				47	45	51
Beckman Coulter Inc.	2					60	65
Diasys	11	68.9	2.9	4.2	68	66	74
Elitechgroup	17	57.4	5.7	9.9	57	48	70
LC Diagnostics	9				59	57	61
Thermo Fisher Scientific	4				48	38	79
Wako	86	50.0	1.7	3.5	50	44	63
Enzymatic with polyanion precipitation	46	60.3	6.8	11.2	59	20	75
(주)아이비디랩	2					50	69
(주)지디엘코리아	4				61	57	75
Fujifilm Corporation	1				56		
Ortho Clinical Diagnostics	12	55.5	1.7	3.1	56	46	58
Stanbio	27	62.6	6.2	9.9	63	20	71
Enzymatic with Polyethylene glycol	406	42.8	2.9	6.9	42	35	80
(주)티씨엠생명과학	10	47.8	8.6	18.0	46	35	66
PZ Cormay	33	69.6	3.9	5.6	69	62	80
Roche	343	42.2	1.6	3.7	42	36	63
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	18	51.7	5.2	10.0	52	42	63
Sichuan Maccura Biotechnology Co., Ltd.	2					52	65
Other Method	21	57.0	9.8	17.2	59	38	73
주식회사 한랩	1				51		
Beckman Coulter Inc.	2					65	69
Others	16	57.3	9.4	16.4	59	41	73
Rayto Life and Analytical Sciences Co., Ltd.	1				38		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				57		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1838	25.2	3.4	13.5	26	11	108
Enzymatic with detergent	1132	26.6	2.3	8.7	27	14	108
신양화학	1				21		
아산제약(주)	15	23.2	4.2	18.3	22	19	33
영인과학	3				25	25	29
(주)아이비디랩	9				27	23	30
(주)제이엔티 바이오(구 (주)젠바디)	8				24	22	27
(주)지디엘코리아	45	23.3	2.1	8.9	23	19	29
(주)티씨엠생명과학	3				24	23	25
Abbott	15	29.1	1.2	4.3	29	27	31
Beckman Coulter Inc.	151	28.5	1.2	4.1	28	22	32
Bion	58	25.3	1.5	6.0	25	15	29
Biosystems	130	26.8	2.8	10.6	27	14	36
Chema Diagnostica	3				26	24	28
Erba diagnostics	7				28	23	49
Genematrix(구 진매트릭스바이오)	6				23	21	28
JW바이오사이언스(주)(구 JW중외메디칼)	48	26.7	2.0	7.6	26	23	32
PZ Cormay	41	29.6	2.0	6.6	29	25	37
Sekisui Medical	427	27.0	1.2	4.5	27	20	108
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	120	23.5	1.1	4.8	23	18	34
Siemens Healthineers	40	27.8	1.3	4.6	28	22	30
SNIBE Co.,Ltd	2					26	27
Enzymatic with electrostatic	17	20.8	0.4	2.2	21	20	22
Minaris Medical co., Ltd	17	20.8	0.4	2.2	21	20	22
Enzymatic with immunoinhibition	84	27.5	2.6	9.4	28	20	33
Beckman Coulter Inc.	71	28.6	1.2	4.1	28	20	33
Diasys	13	23.3	1.6	6.9	23	21	26

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Enzymatic with others	132	23.9	1.5	6.4	24	19	72
(주)신화메디	3				23	22	23
Beckman Coulter Inc.	2					26	28
Diasys	11	23.9	1.4	5.8	24	22	27
Elitechgroup	17	24.9	1.8	7.3	26	21	27
LC Diagnostics	9				26	24	27
Thermo Fisher Scientific	4				20	19	27
Wako	86	23.5	0.8	3.4	23	20	72
Enzymatic with polyanion precipitation	46	27.0	5.4	19.9	27	11	37
(주)아이비디랩	2					24	29
(주)지디엘코리아	4				27	25	30
Fujifilm Corporation	1				21		
Ortho Clinical Diagnostics	12	20.7	0.5	2.3	21	17	21
Stanbio	27	30.3	3.9	12.9	30	11	37
Enzymatic with Polyethylene glycol	406	20.8	1.1	5.3	21	15	34
(주)티씨엠생명과학	10	21.3	4.1	19.3	21	16	31
PZ Cormay	33	29.8	1.8	6.2	29	23	34
Roche	343	20.6	0.7	3.6	21	15	26
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	18	23.1	1.5	6.4	23	20	26
Sichuan Maccura Biotechnology Co., Ltd.	2					22	23
Other Method	21	24.4	3.3	13.5	23	19	31
주식회사 한랩	1				23		
Beckman Coulter Inc.	2					28	31
Others	16	24.3	2.9	12.0	24	20	31
Rayto Life and Analytical Sciences Co., Ltd.	1				19		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				23		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1838	36.6	5.4	14.9	38	15	175
Enzymatic with detergent	1132	38.9	3.4	8.9	39	24	175
신양화학	1				34		
아산제약(주)	15	32.0	4.6	14.2	31	27	44
영인과학	3				37	36	42
(주)아이비디랩	9				40	32	42
(주)제이엔티 바이오(구 (주)젠바디)	8				35	32	56
(주)지디엘코리아	45	32.3	3.5	10.8	32	27	43
(주)티씨엠생명과학	3				36	34	37
Abbott	15	40.7	1.8	4.3	40	38	44
Beckman Coulter Inc.	151	41.2	1.6	3.8	41	32	46
Bion	58	38.5	2.2	5.8	38	28	47
Biosystems	130	39.8	2.7	6.9	40	26	67
Chema Diagnostica	3				40	36	41
Erba diagnostics	7				36	33	67
Genematrix(구 진매트릭스바이오)	6				34	27	49
JW바이오사이언스(주)(구 JW중외메디칼)	48	41.1	3.0	7.2	41	35	49
PZ Cormay	41	44.5	2.5	5.6	44	40	55
Sekisui Medical	427	39.3	1.4	3.5	39	30	175
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	120	33.5	1.8	5.4	33	24	57
Siemens Healthineers	40	40.7	1.6	3.8	41	33	43
SNIBE Co.,Ltd	2					39	42
Enzymatic with electrostatic	17	28.3	0.6	2.0	28	27	30
Minaris Medical co., Ltd	17	28.3	0.6	2.0	28	27	30
Enzymatic with immunoinhibition	84	40.7	2.7	6.6	41	25	46
Beckman Coulter Inc.	71	41.5	1.9	4.5	41	25	46
Diasys	13	36.1	1.8	5.1	36	33	44

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Enzymatic with others	132	34.4	2.6	7.7	34	23	45
(주)신화메디	3				32	31	33
Beckman Coulter Inc.	2					37	41
Diasys	11	37.6	2.2	5.9	36	35	41
Elitechgroup	17	36.6	3.5	9.5	37	32	45
LC Diagnostics	9				37	36	40
Thermo Fisher Scientific	4				28	27	40
Wako	86	33.3	1.2	3.5	33	23	39
Enzymatic with polyanion precipitation	46	39.0	5.4	13.9	39	15	48
(주)아이비디랩	2					33	43
(주)지디엘코리아	4				39	37	47
Fujifilm Corporation	1				34		
Ortho Clinical Diagnostics	12	33.5	1.0	3.1	34	28	35
Stanbio	27	41.8	4.4	10.6	41	15	48
Enzymatic with Polyethylene glycol	406	29.2	1.6	5.6	29	25	52
(주)티씨엠생명과학	10	28.8	4.2	14.7	27	25	37
PZ Cormay	33	44.7	2.6	5.8	44	41	52
Roche	343	28.9	1.1	3.9	29	25	40
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	18	32.2	2.4	7.3	33	28	36
Sichuan Maccura Biotechnology Co., Ltd.	2					34	34
Other Method	21	35.4	5.5	15.5	34	28	45
주식회사 한랩	1				33		
Beckman Coulter Inc.	2					41	45
Others	16	35.3	5.2	14.6	34	28	45
Rayto Life and Analytical Sciences Co., Ltd.	1				28		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				31		

Iron (Fe)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	475	241.9	6.6	2.7	240	197	399
Bathophenanthroline without deproteinization	89	251.9	4.6	1.8	251	239	399
Wako	89	251.9	4.6	1.8	251	239	399
Ferene with deproteinization	1				197		
(주)제이앤티 바이오(구 (주)젠바디)	1				197		
Ferene without deproteinization	13	252.8	15.9	6.3	248	225	285
Abbott	13	252.8	15.9	6.3	248	225	285
Ferrozine without deproteinization	204	239.6	3.6	1.5	239	217	254
아산제약(주)	2					238	254
영인과학	1				247		
(주)아이비디랩	1				235		
(주)지디엘코리아	1				250		
Biosystems	3				217	217	224
Roche	167	240.0	3.2	1.3	240	223	252
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	3				242	232	254
Siemens Healthineers	26	236.4	3.5	1.5	236	228	242
Nitroso-PSAP without deproteinization	83	237.9	2.4	1.0	238	227	277
신양화학	1				237		
Minaris Medical co., Ltd	8				239	235	241
Shino-Test Corporation	74	237.8	2.5	1.0	238	227	277
Pyridyl AZO Dye Ascorbate without deproteinization	3				266	263	290
Ortho Clinical Diagnostics	3				266	263	290
Tripyridyltriazine without deproteinization	82	240.4	3.2	1.3	241	225	259
Beckman Coulter Inc.	82	240.4	3.2	1.3	241	225	259

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	N	Mean	SD	CV(%)	Median	Min	Max
All	475	75.8	2.5	3.3	76	62	128
Bathophenanthroline without deproteinization	89	78.7	1.8	2.3	79	68	95
Wako	89	78.7	1.8	2.3	79	68	95
Ferene with deproteinization	1				62		
(주)제이앤티 바이오(구 (주)젠마디)	1				62		
Ferene without deproteinization	13	80.4	4.1	5.1	79	76	128
Abbott	13	80.4	4.1	5.1	79	76	128
Ferrozine without deproteinization	204	75.7	1.7	2.2	76	66	86
아산제약(주)	2					74	77
영인과학	1				73		
(주)아이비디랩	1				72		
(주)지디엘코리아	1				81		
Biosystems	3				76	74	77
Roche	167	76.0	1.5	2.0	76	66	86
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	3				77	68	78
Siemens Healthineers	26	74.3	1.4	1.9	74	71	77
Nitroso-PSAP without deproteinization	83	74.6	1.4	1.9	75	65	92
신양화학	1				77		
Minaris Medical co., Ltd	8				75	73	78
Shino-Test Corporation	74	74.5	1.2	1.7	75	65	92
Pyridyl AZO Dye Ascorbate without deproteinization	3				71	64	88
Ortho Clinical Diagnostics	3				71	64	88
Tripyridyltriazine without deproteinization	82	73.7	1.7	2.3	74	67	80
Beckman Coulter Inc.	82	73.7	1.7	2.3	74	67	80

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	N	Mean	SD	CV(%)	Median	Min	Max
All	475	155.6	4.4	2.8	155	130	204
Bathophenanthroline without deproteinization	89	162.3	3.1	1.9	162	152	176
Wako	89	162.3	3.1	1.9	162	152	176
Ferene with deproteinization	1				130		
(주)제이앤티 바이오(구 (주)젠바디)	1				130		
Ferene without deproteinization	13	161.6	8.4	5.2	161	146	204
Abbott	13	161.6	8.4	5.2	161	146	204
Ferrozine without deproteinization	204	154.4	2.6	1.7	154	144	166
아산제약(주)	2					157	160
영인과학	1				159		
(주)아이비디랩	1				150		
(주)지디엘코리아	1				164		
Biosystems	3				146	144	147
Roche	167	154.8	2.3	1.5	155	145	166
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	3				157	149	165
Siemens Healthineers	26	151.9	2.4	1.6	152	147	156
Nitroso-PSAP without deproteinization	83	153.3	1.8	1.2	153	143	181
신양화학	1				153		
Minaris Medical co., Ltd	8				155	152	161
Shino-Test Corporation	74	153.2	1.8	1.2	153	143	181
Pyridyl AZO Dye Ascorbate without deproteinization	3				158	150	180
Ortho Clinical Diagnostics	3				158	150	180
Tripyridyltriazine without deproteinization	82	153.6	2.0	1.3	154	144	166
Beckman Coulter Inc.	82	153.6	2.0	1.3	154	144	166

Lactate dehydrogenase (LD)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	993	501.7	203.5	40.6	415	141	1133
lactate to pyruvate	773	401.8	21.4	5.3	401	141	950
Abbott	15	414.9	8.3	2.0	413	403	426
Beckman Coulter Inc.	120	375.5	9.6	2.6	376	141	428
Diasys	4				438	353	475
Elitechgroup	4				416	412	420
Fujifilm Corporation	1				348		
Roche	244	422.3	7.2	1.7	423	395	449
Sekisui Medical	120	382.2	9.1	2.4	382	354	421
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	39	416.6	16.5	4.0	420	170	463
Shino-Test Corporation	46	400.8	13.3	3.3	400	380	950
Siemens Healthineers	39	417.9	7.8	1.9	419	399	437
SNIBE Co.,Ltd	1				424		
Stanbio	4				372	365	844
Wako	136	393.3	9.4	2.4	393	160	428
Other Method	3				413	400	415
주식회사 한랩	1				400		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	2					413	415
pyruvate to lactate	210	907.5	68.7	7.6	916	174	1133
신양화학	6				881	843	933
아산제약(주)	6				879	593	932
(주)제이앤티 바이오(구 (주)셀바디)	1				874		
(주)지디엘코리아	16	830.5	35.2	4.2	821	391	930
(주)티씨엠생명과학	4				872	785	928

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Beckman Coulter Inc.	47	941.3	15.2	1.6	939	363	1029
Bion	12	900.8	52.1	5.8	921	791	952
Biosystems	35	906.7	38.3	4.2	900	467	970
Chema Diagnostica	1				837		
Diasys	2					425	430
Erba diagnostics	1				908		
Genematrix(구 진메트릭스바이오)	2					414	810
JW바이오사이언스(주)(구 JW중외메디칼)	21	949.3	30.9	3.3	950	174	1025
LC Diagnostics	2					894	900
PZ Cormay	20	818.4	23.2	2.8	819	396	856
Roche	9				425	412	436
Sekisui Medical	23	975.5	40.4	4.1	977	890	1133
Siemens Healthineers	2					895	904
pyruvate to lactate (dry chemistry)	7				433	415	447
Ortho Clinical Diagnostics	7				433	415	447

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	N	Mean	SD	CV(%)	Median	Min	Max
All	993	140.1	53.2	38.0	119	12	310
lactate to pyruvate	773	114.6	6.8	6.0	114	12	260
Abbott	15	117.1	2.8	2.4	118	113	122
Beckman Coulter Inc.	120	105.9	3.4	3.2	106	61	126
Diasys	4				138	128	150
Elitechgroup	4				121	110	123
Fujifilm Corporation	1				90		
Roche	244	120.9	2.5	2.1	121	108	129
Sekisui Medical	120	109.3	2.8	2.6	109	100	125
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	39	120.1	5.5	4.6	122	68	126

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Shino-Test Corporation	46	113.0	4.1	3.6	112	106	260
Siemens Healthineers	39	119.4	2.4	2.0	120	114	128
SNIBE Co.,Ltd	1				121		
Stanbio	4				118	112	228
Wako	136	111.8	3.3	2.9	112	12	121
Other Method	3				118	109	123
주식회사 한랩	1				109		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	2					118	123
pyruvate to lactate	210	245.7	20.2	8.2	245	69	310
신양화학	6				233	219	247
아산제약(주)	6				235	160	252
(주)제이엔티 바이오(구 (주)젠바디)	1				262		
(주)지디엘코리아	16	225.5	12.6	5.6	223	127	261
(주)티씨엠생명과학	4				255	224	292
Beckman Coulter Inc.	47	246.4	6.8	2.7	248	100	278
Bion	12	242.7	14.1	5.8	249	215	255
Biosystems	35	246.3	14.1	5.7	244	165	278
Chema Diagnostica	1				252		
Diasys	2					121	129
Erba diagnostics	1				232		
Genematrix(구 진매트릭스바이오)	2					116	214
JW바이오사이언스(주)(구 JW중외메디칼)	21	262.5	4.9	1.9	260	69	275
LC Diagnostics	2					254	258
PZ Cormay	20	226.6	7.4	3.3	228	123	290
Roche	9				120	116	126
Sekisui Medical	23	266.8	10.0	3.7	266	234	310
Siemens Healthineers	2					241	241
pyruvate to lactate (dry chemistry)	7				123	116	128
Ortho Clinical Diagnostics	7				123	116	128

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	N	Mean	SD	CV(%)	Median	Min	Max
All	993	218.2	87.9	40.3	182	100	487
lactate to pyruvate	773	175.8	10.1	5.7	176	100	415
Abbott	15	179.4	3.5	1.9	180	171	185
Beckman Coulter Inc.	120	162.1	4.4	2.7	162	100	184
Diasys	4				200	183	212
Elitechgroup	4				188	185	191
Fujifilm Corporation	1				138		
Roche	244	185.0	3.2	1.7	185	173	196
Sekisui Medical	120	166.7	4.2	2.5	167	153	185
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	39	183.8	7.3	4.0	185	110	198
Shino-Test Corporation	46	173.5	5.3	3.1	174	165	415
Siemens Healthineers	39	184.8	3.8	2.1	186	176	191
SNIBE Co.,Ltd	1				192		
Stanbio	4				170	164	375
Wako	136	172.3	4.0	2.3	172	116	189
Other Method	3				181	172	190
주식회사 한랩	1				172		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	2					181	190
pyruvate to lactate	210	393.4	29.3	7.5	395	116	487
신양화학	6				373	354	400
아산제약(주)	6				388	262	410
(주)제이엔티 바이오(구 (주)젠바디)	1				422		
(주)지디엘코리아	16	360.1	16.3	4.5	358	172	406
(주)티씨엠생명과학	4				402	342	476
Beckman Coulter Inc.	47	398.3	6.5	1.6	397	158	443
Bion	12	389.9	24.1	6.2	400	344	415
Biosystems	35	394.6	17.9	4.5	390	214	430

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Chema Diagnostica	1				375		
Diasys	2					192	208
Erba diagnostics	1				369		
Genematrix(구 진메트릭스바이오)	2					187	340
JW바이오사이언스(주)(구 JW중외메디칼)	21	418.2	6.1	1.5	419	116	445
LC Diagnostics	2					396	400
PZ Cormay	20	363.8	14.1	3.9	363	338	387
Roche	9				186	179	193
Sekisui Medical	23	419.9	17.2	4.1	420	386	487
Siemens Healthineers	2					385	387
pyruvate to lactate (dry chemistry)	7				196	193	200
Ortho Clinical Diagnostics	7				196	193	200



Lipase

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	N	Mean	SD	CV(%)	Median	Min	Max
All	554	141.1	25.6	18.2	137	63	1670
hydrolysis of 1,2-diglyceride with Quinone Dye	88	118.2	2.9	2.5	119	106	133
Beckman Coulter Inc.	82	118.1	3.0	2.5	119	106	129
Wako	6				121	117	133
hydrolysis of 1,2-O-dilauryl-rac-glycero-3-glutaric acid-(6'-methylresorufin) ester	457	145.5	25.7	17.7	139	63	237
아산제약(주)	7				138	125	187
영인과학	2					102	120
(주)제이앤티 바이오(구 (주)젠바디)	1				148		
(주)지디엘코리아	3				107	94	112
(주)티씨엠생명과학	1				63		
Beckman Coulter Inc.	1				115		
Biosystems	11	153.7	8.8	5.7	155	141	171
Diasys	26	104.1	6.0	5.7	104	93	161
Genematrix(구 진매트릭스바이오)	8				105	103	111
JW바이오사이언스(주)(구 JW중외메디칼)	25	109.5	9.2	8.4	109	84	133
LC Diagnostics	1				134		
Roche	197	136.2	4.9	3.6	137	121	171
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	18	133.6	18.7	14.0	128	109	174
Shino-Test Corporation	118	180.7	5.3	3.0	181	137	237
Siemens Healthineers	37	150.8	3.9	2.6	151	135	168
Thermo Fisher Scientific	1				118		
hydrolysis of 1-oleoyl-2,3-diacetyl glycerol	9				1642	1498	1670
Ortho Clinical Diagnostics	9				1642	1498	1670

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	N	Mean	SD	CV(%)	Median	Min	Max
All	554	19.7	2.9	14.7	20	7	136
hydrolysis of 1,2-diglyceride with Quinone Dye	88	14.5	1.4	9.7	14	7	136
Beckman Coulter Inc.	82	14.3	1.2	8.4	14	7	35
Wako	6				18	15	136
hydrolysis of 1,2-O-dilauryl-rac-glycero-3-glutaric acid-(6'-methylresorufin) ester	457	20.5	1.8	8.9	20	11	42
아산제약(주)	7				23	19	26
영인과학	2					11	13
(주)제이앤티 바이오(구 (주)젠바디)	1				21		
(주)지디엘코리아	3				20	17	25
(주)티씨엠생명과학	1				19		
Beckman Coulter Inc.	1				14		
Biosystems	11	25.3	3.5	13.7	25	20	32
Diasys	26	19.3	1.7	8.8	19	16	24
Genematrix(구 진메트릭스바이오)	8				20	18	28
JW바이오사이언스(주)(구 JW중외메디칼)	25	19.3	2.2	11.3	19	13	23
LC Diagnostics	1				36		
Roche	197	20.7	0.7	3.5	21	18	42
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	18	21.5	1.7	8.1	21	20	28
Shino-Test Corporation	118	19.0	0.9	4.7	19	14	26
Siemens Healthineers	37	24.1	1.0	4.1	24	21	32
Thermo Fisher Scientific	1				24		
hydrolysis of 1-oleoyl-2,3-diacetyl glycerol	9				55	53	59
Ortho Clinical Diagnostics	9				55	53	59

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	N	Mean	SD	CV(%)	Median	Min	Max
All	554	42.2	4.4	10.4	42	22	359
hydrolysis of 1,2-diglyceride with Quinone Dye	88	36.0	2.0	5.6	36	31	60
Beckman Coulter Inc.	82	35.9	1.8	5.1	36	31	60
Wako	6				42	36	55
hydrolysis of 1,2-O-dilauryl-rac-glycero-3-glutaric acid-(6'-methylresorufin) ester	457	43.1	3.3	7.7	43	22	103
아산제약주	7				45	43	47
영인과학	2					27	34
(주)제이앤티 바이오(구 (주)젠바디)	1				44		
(주)지디엘코리아	3				40	33	43
(주)티씨엠생명과학	1				28		
Beckman Coulter Inc.	1				35		
Biosystems	11	47.8	4.2	8.8	48	42	57
Diasys	26	37.3	2.0	5.3	37	34	46
Genematrix(구 진메트릭스바이오)	8				39	36	45
JW바이오사이언스(주)(구 JW중외메디칼)	25	37.4	2.3	6.3	37	33	41
LC Diagnostics	1				45		
Roche	197	42.1	1.0	2.4	42	22	63
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	18	42.8	3.8	9.0	43	38	103
Shino-Test Corporation	118	46.1	1.8	3.8	46	39	58
Siemens Healthineers	37	46.8	1.6	3.4	47	43	58
Thermo Fisher Scientific	1				44		
hydrolysis of 1-oleoyl-2,3-diacetyl glycerol	9				334	317	359
Ortho Clinical Diagnostics	9				334	317	359

Low density lipoprotein cholesterol (LDL-C)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1205	163.9	18.4	11.2	161	59	400
Enzymatic with detergent	996	161.7	17.8	11.0	158	59	400
신양화학	1				126		
아산제약(주)	9				152	126	168
영인과학	4				163	143	170
(주)아이비디랩	2					146	173
(주)제이앤티 바이오(구 (주)젠바디)	5				162	143	188
(주)지디엘코리아	28	160.8	5.7	3.6	159	122	187
(주)티씨엠생명과학	7				175	145	186
Abbott	15	164.1	3.4	2.1	163	160	171
Beckman Coulter Inc.	123	146.3	7.6	5.2	146	122	163
Bion	22	174.0	11.5	6.6	173	153	202
Biosystems	78	133.1	12.0	9.0	130	114	181
Chema Diagnostica	3				151	142	182
Elitechgroup	6				158	143	176
Genematrix(구 진메트릭스바이오)	7				187	146	200
JW바이오사이언스(주)(구 JW중외메디칼)	26	175.6	6.2	3.5	175	163	187
Minaris Medical co., Ltd	17	182.6	2.8	1.5	182	179	190
PZ Cormay	17	168.0	11.4	6.8	168	146	189
Roche	268	182.4	3.9	2.1	182	146	209
Sekisui Medical	310	153.8	5.9	3.8	153	137	400
Siemens Healthineers	38	152.1	3.2	2.1	152	134	167
SNIBE Co.,Ltd	1				164		
Stanbio	9				164	59	203

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Enzymatic with others	182	175.2	18.0	10.3	179	134	213
Beckman Coulter Inc.	34	145.0	5.8	4.0	145	134	180
Diasys	10	182.2	5.9	3.3	180	162	195
Ortho Clinical Diagnostics	3				156	153	156
PZ Cormay	17	177.6	12.4	7.0	180	152	195
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	60	191.2	8.1	4.2	190	143	213
Wako	58	177.6	6.3	3.6	176	151	192
Enzymatic with Polyethylene glycol	15	167.4	9.4	5.6	166	125	187
Erba diagnostics	5				166	125	175
LC Diagnostics	6				165	160	168
Sichuan Maccura Biotechnology Co., Ltd.	3				180	146	187
Thermo Fisher Scientific	1				166		
Other Method	12	172.5	17.8	10.3	174	139	205
Beckman Coulter Inc.	2					139	160
Elitechgroup	1				172		
Others	8				178	153	205
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				190		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1205	67.7	5.2	7.7	67	27	139
Enzymatic with detergent	996	66.9	4.8	7.2	67	27	112
신양화학	1				69		
아산제약(주)	9				58	52	68
영인과학	4				69	63	72
(주)아이비디랩	2					65	78
(주)제이앤티 바이오(구 (주)젤바디)	5				70	61	75
(주)지디엘코리아	28	64.6	2.3	3.6	64	55	70

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(주)티씨엠생명과학	7				69	60	75
Abbott	15	69.8	1.4	2.0	70	67	72
Beckman Coulter Inc.	123	63.5	2.8	4.4	64	53	69
Bion	22	67.8	3.7	5.4	68	61	75
Biosystems	78	57.6	4.0	6.9	58	50	73
Chema Diagnostica	3				58	57	73
Elitechgroup	6				62	55	71
Genematrix(구 진매트릭스바이오)	7				69	63	74
JW바이오사이언스(주)(구 JW중외메디칼)	26	69.8	1.9	2.8	70	63	74
Minaris Medical co., Ltd	17	71.3	1.4	2.0	71	69	74
PZ Cormay	17	72.6	3.1	4.2	72	67	80
Roche	268	71.7	1.7	2.4	71	60	83
Sekisui Medical	310	65.6	2.2	3.3	65	59	112
Siemens Healthineers	38	64.8	1.5	2.3	65	57	70
SNIBE Co.,Ltd	1				66		
Stanbio	9				71	27	90
Enzymatic with others	182	71.6	6.2	8.6	72	55	139
Beckman Coulter Inc.	34	63.6	2.8	4.4	63	59	71
Diasys	10	68.4	3.3	4.9	69	63	73
Ortho Clinical Diagnostics	3				66	63	67
PZ Cormay	17	76.9	6.6	8.6	77	67	89
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	60	76.1	3.9	5.2	76	55	87
Wako	58	71.6	3.0	4.2	72	65	139
Enzymatic with Polyethylene glycol	15	69.4	6.5	9.3	68	57	83
Erba diagnostics	5				66	63	83
LC Diagnostics	6				70	66	76
Sichuan Maccura Biotechnology Co., Ltd.	3				74	57	78
Thermo Fisher Scientific	1				66		
Other Method	12	69.4	5.1	7.4	69	60	80
Beckman Coulter Inc.	2					60	69

Elitechgroup	1	72		
Others	8	68	65	80
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1	73		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1205	111.5	8.9	8.0	111	37	164
Enzymatic with detergent	996	110.0	7.2	6.6	110	37	139
신양화학	1				117		
아산제약(주)	9				101	89	112
영인과학	4				113	104	118
(주)아이비디랩	2					101	125
(주)제이엔티 바이오(구 (주)젠바디)	5				115	100	123
(주)지디엘코리아	28	102.6	4.0	3.9	102	87	117
(주)티씨엠생명과학	7				112	97	116
Abbott	15	115.0	3.1	2.7	115	110	121
Beckman Coulter Inc.	123	104.5	4.3	4.1	105	87	114
Bion	22	114.1	6.3	5.5	114	101	125
Biosystems	78	95.7	5.9	6.1	96	80	118
Chema Diagnostica	3				104	104	116
Elitechgroup	6				106	95	118
Genematrix(구 진메트릭스바이오)	7				111	92	124
JW바이오사이언스(주)(구 JW중외메디칼)	26	116.9	3.4	2.9	117	105	123
Minaris Medical co., Ltd	17	115.2	1.8	1.6	115	113	118
PZ Cormay	17	123.1	7.4	6.0	124	112	139
Roche	268	115.8	2.8	2.4	116	100	134
Sekisui Medical	310	108.5	3.8	3.5	108	95	128
Siemens Healthineers	38	108.1	2.2	2.1	108	96	114

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SNIBE Co.,Ltd	1				109		
Stanbio	9				113	37	126
Enzymatic with others	182	120.7	10.9	9.1	124	78	164
Beckman Coulter Inc.	34	104.0	3.7	3.6	104	96	120
Diasys	10	112.2	5.3	4.7	114	103	121
Ortho Clinical Diagnostics	3				108	105	109
PZ Cormay	17	128.1	9.3	7.2	128	112	143
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	60	126.4	6.2	4.9	126	94	143
Wako	58	125.6	5.2	4.2	126	78	164
Enzymatic with Polyethylene glycol	15	112.5	7.3	6.5	111	99	144
Erba diagnostics	5				110	108	127
LC Diagnostics	6				112	106	116
Sichuan Maccura Biotechnology Co., Ltd.	3				126	99	144
Thermo Fisher Scientific	1				111		
Other Method	12	117.0	9.2	7.9	115	101	134
Beckman Coulter Inc.	2					101	113
Elitechgroup	1				115		
Others	8				115	109	134
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				128		



Magnesium (Mg)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	388	3.86	0.09	2.2	3.9	3.1	5.4
Colorimetry_Xylidyl Blue	376	3.86	0.09	2.2	3.9	3.1	5.4
아산제약(주)	1				4.8		
주식회사 한랩	1				3.8		
Beckman Coulter Inc.	73	3.85	0.08	2.0	3.9	3.6	4.1
Biosystems	2					4.0	5.4
Diasys	4				3.9	3.7	4.2
JW바이오사이언스(주)(구 JW중외메디칼)	5				3.8	3.8	4.1
Roche	142	3.87	0.07	1.7	3.9	3.7	4.5
Sekisui Medical	96	3.84	0.08	2.2	3.8	3.3	4.4
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	7				3.9	3.8	4.3
Siemens Healthineers	21	3.91	0.13	3.2	3.9	3.6	4.1
Wako	24	3.80	0.13	3.4	3.8	3.1	4.2
Dry chemistry	3				3.6	3.5	3.8
Ortho Clinical Diagnostics	3				3.6	3.5	3.8
Other Method	9				3.9	3.8	4.0
Abbott	9				3.9	3.8	4.0

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	N	Mean	SD	CV(%)	Median	Min	Max
All	388	1.12	0.04	3.7	1.1	0.8	3.8
Colorimetry_Xylidyl Blue	376	1.12	0.04	3.7	1.1	0.8	3.8
아산제약(주)	1				2.1		

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주식회사 한랩	1				1.1		
Beckman Coulter Inc.	73	1.10	0.00	0.0	1.1	1.0	1.3
Biosystems	2					1.2	3.8
Diasys	4				1.2	1.0	1.4
JW바이오사이언스(주)(구 JW중외메디칼)	5				1.2	1.1	1.3
Roche	142	1.10	0.00	0.0	1.1	1.0	1.2
Sekisui Medical	96	1.15	0.07	6.1	1.2	1.0	1.4
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	7				1.1	1.0	1.6
Siemens Healthineers	21	1.10	0.00	0.0	1.1	1.0	1.3
Wako	24	1.10	0.07	6.1	1.1	0.8	1.4
Dry chemistry	3				1.0	0.8	1.0
Ortho Clinical Diagnostics	3				1.0	0.8	1.0
Other Method	9				1.1	1.1	1.1
Abbott	9				1.1	1.1	1.1

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	N	Mean	SD	CV(%)	Median	Min	Max
All	388	2.66	0.07	2.5	2.7	2.4	4.8
Colorimetry_Xylidyl Blue	376	2.66	0.07	2.5	2.7	2.4	4.8
아산제약(주)	1				3.5		
주식회사 한랩	1				2.6		
Beckman Coulter Inc.	73	2.64	0.07	2.6	2.6	2.4	2.8
Biosystems	2					2.8	4.8
Diasys	4				2.7	2.6	3.0
JW바이오사이언스(주)(구 JW중외메디칼)	5				2.7	2.6	2.9
Roche	142	2.68	0.05	1.9	2.7	2.4	2.8
Sekisui Medical	96	2.68	0.08	2.9	2.7	2.4	3.0
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	7				2.7	2.6	3.0

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Siemens Healthineers	21	2.62	0.06	2.3	2.6	2.5	2.7
Wako	24	2.62	0.12	4.5	2.6	2.4	2.8
Dry chemistry	3				2.5	2.4	2.6
Ortho Clinical Diagnostics	3				2.5	2.4	2.6
Other Method	9				2.6	2.6	2.7
Abbott	9				2.6	2.6	2.7



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Osmolality

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	N	Mean	SD	CV(%)	Median	Min	Max
All	195	539.9	3.4	0.6	540	475	555
Freezing point depression osmometer	193	539.9	3.4	0.6	540	505	555
Advanced Instruments	64	540.5	4.0	0.7	540	531	555
Arkray Inc	48	539.1	3.5	0.6	539	531	548
Precision Systems	81	540.1	3.1	0.6	540	505	549
Other Method	2					475	538
Others	2					475	538

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	N	Mean	SD	CV(%)	Median	Min	Max
All	195	306.4	3.1	1.0	307	296	321
Freezing point depression osmometer	193	306.4	3.1	1.0	307	296	321
Advanced Instruments	64	306.9	2.7	0.9	307	302	321
Arkray Inc	48	303.3	1.6	0.5	303	299	307
Precision Systems	81	307.8	2.0	0.7	308	296	315
Other Method	2					298	308
Others	2					298	308

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	N	Mean	SD	CV(%)	Median	Min	Max
All	195	398.1	3.3	0.8	398	372	416

Freezing point depression osmometer	193	398.0	3.3	0.8	398	381	416
Advanced Instruments	64	398.7	3.4	0.9	398	392	416
Arkray Inc	48	396.2	2.8	0.7	396	391	402
Precision Systems	81	398.9	2.6	0.7	399	381	408
Other Method	2					372	402
Others	2					372	402



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Phosphorus (P)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	805	7.39	0.20	2.7	7.4	5.7	10.1
Enzymatic	1				7.6		
Wako	1				7.6		
molybden blue colorimetry	204	7.26	0.16	2.2	7.3	6.8	8.0
Ortho Clinical Diagnostics	4				7.5	7.5	7.7
Sekisui Medical	200	7.26	0.16	2.1	7.3	6.8	8.0
Phosphomolybdate	600	7.43	0.19	2.6	7.4	5.7	10.1
아산제약(주)	3				7.4	7.4	7.5
주식회사 한랩	1				7.4		
(주)아이비디랩	1				6.8		
(주)제이앤티 바이오(구 (주)젠바디)	1				5.7		
(주)지디엘코리아	5				7.8	7.6	8.1
(주)티씨엠생명과학	1				6.6		
Abbott	16	7.32	0.07	0.9	7.3	7.2	7.4
Beckman Coulter Inc.	144	7.47	0.16	2.1	7.5	7.0	8.4
Bion	3				8.9	7.0	9.3
Biosystems	23	7.84	0.28	3.6	7.9	7.3	9.1
Diasys	4				7.8	7.7	8.0
Elitechgroup	1				7.6		
JW바이오사이언스(주)(구 JW중외메디칼)	21	7.38	0.37	5.0	7.4	6.6	10.1
PZ Cormay	6				7.6	7.1	7.7
Roche	234	7.42	0.13	1.7	7.4	6.7	8.0
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	31	6.89	0.24	3.4	6.9	6.4	8.3
Siemens Healthineers	39	7.50	0.15	2.0	7.5	7.2	8.2

Stanbio	2					6.7	7.1
Thermo Fisher Scientific	2					7.1	7.2
Wako	62	7.43	0.15	2.1	7.4	6.6	8.5

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	N	Mean	SD	CV(%)	Median	Min	Max
All	805	2.16	0.08	3.9	2.2	1.7	7.4
Enzymatic	1				2.1		
Wako	1				2.1		
molybden blue colorimetry	204	2.21	0.06	2.6	2.2	2.0	4.1
Ortho Clinical Diagnostics	4				2.6	2.4	2.6
Sekisui Medical	200	2.21	0.06	2.6	2.2	2.0	4.1
Phosphomolybdate	600	2.14	0.07	3.4	2.1	1.7	7.4
아산제약(주)	3				2.2	2.1	2.4
주식회사 한랩	1				2.2		
(주)아이비디랩	1				1.7		
(주)제이앤티 바이오(구 (주)젠바디)	1				2.2		
(주)지디엘코리아	5				2.2	2.1	2.3
(주)티씨엠생명과학	1				1.9		
Abbott	16	2.12	0.04	1.9	2.1	2.1	2.2
Beckman Coulter Inc.	144	2.17	0.07	3.2	2.2	2.0	2.7
Bion	3				2.2	1.9	2.7
Biosystems	23	2.17	0.08	3.6	2.2	1.9	2.7
Diasys	4				2.2	2.2	2.4
Elitechgroup	1				2.2		
JW바이오사이언스(주)(구 JW중외메디칼)	21	2.12	0.10	4.9	2.2	1.9	3.3
PZ Cormay	6				2.2	2.1	2.3
Roche	234	2.12	0.06	2.7	2.1	1.9	2.4

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Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	31	2.07	0.09	4.2	2.1	1.9	7.4
Siemens Healthineers	39	2.16	0.10	4.5	2.2	2.0	2.4
Stanbio	2					2.3	2.5
Thermo Fisher Scientific	2					2.3	2.5
Wako	62	2.11	0.07	3.3	2.1	1.9	2.6

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	N	Mean	SD	CV(%)	Median	Min	Max
All	805	4.11	0.11	2.7	4.1	3.5	6.0
Enzymatic	1				4.1		
Wako	1				4.1		
molybden blue colorimetry	204	4.13	0.10	2.5	4.1	3.6	5.3
Ortho Clinical Diagnostics	4				4.4	4.2	4.4
Sekisui Medical	200	4.13	0.10	2.5	4.1	3.6	5.3
Phosphomolybdate	600	4.10	0.11	2.8	4.1	3.5	6.0
아산제약(주)	3				4.1	4.1	4.2
주식회사 한랩	1				4.1		
(주)아이비디랩	1				3.5		
(주)제이앤티 바이오(구 (주)젠바디)	1				4.2		
(주)지디엘코리아	5				4.3	4.2	4.5
(주)티씨엠생명과학	1				3.5		
Abbott	16	4.03	0.04	1.1	4.0	4.0	4.1
Beckman Coulter Inc.	144	4.11	0.10	2.5	4.1	3.8	4.8
Bion	3				4.9	3.8	5.2
Biosystems	23	4.28	0.15	3.4	4.3	4.1	6.0
Diasys	4				4.3	4.2	4.4
Elitechgroup	1				4.3		
JW바이오사이언스(주)(구 JW중외메디칼)	21	4.10	0.22	5.3	4.1	3.7	5.2

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PZ Cormay	6				4.3	4.1	4.7
Roche	234	4.09	0.08	1.9	4.1	3.7	4.4
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	31	3.92	0.15	3.9	3.9	3.6	5.3
Siemens Healthineers	39	4.14	0.10	2.4	4.1	4.0	4.6
Stanbio	2					3.9	4.2
Thermo Fisher Scientific	2					4.0	4.2
Wako	62	4.11	0.10	2.5	4.1	3.6	4.9



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Potassium (K)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1268	7.52	0.13	1.8	7.5	1.3	9.2
ISE, diluted	732	7.50	0.11	1.5	7.5	1.3	8.2
A&T	1				7.6		
Abbott	16	7.64	0.05	0.7	7.6	7.6	7.9
Beckman Coulter Inc.	150	7.37	0.08	1.0	7.4	7.2	7.7
Denka Seiken	46	7.57	0.07	0.9	7.6	7.3	7.9
Diamond diagnostics	13	7.74	0.29	3.8	7.8	1.3	8.1
JEOL	4				7.6	7.5	7.7
Roche	253	7.54	0.07	1.0	7.5	7.2	8.2
Sekisui Medical	199	7.52	0.08	1.1	7.5	7.2	8.0
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	10	7.61	0.11	1.4	7.6	7.0	7.8
Siemens Healthineers	40	7.45	0.11	1.4	7.5	7.2	7.8
ISE, undiluted	523	7.55	0.17	2.3	7.5	6.4	9.2
(주)아이센스	276	7.52	0.09	1.2	7.5	7.2	7.9
BioCARE	9				7.7	7.5	8.0
Biosystems	33	7.44	0.21	2.9	7.5	6.9	7.8
Caretium Medical Instruments	39	7.46	0.19	2.5	7.5	6.4	7.9
CORNLEY HI-TECH CO., LTD	6				7.5	7.3	7.6
Fujifilm Corporation	5				7.7	7.7	7.8
Jokoh Co., Ltd.	20	7.37	0.15	2.1	7.4	6.6	7.6
MEDICA Corp.	27	7.59	0.15	1.9	7.5	7.1	7.9
Nova Biomedical Corporation	6				7.7	7.5	8.5
Ortho Clinical Diagnostics	6				7.6	7.5	7.7
Roche	75	7.84	0.19	2.5	7.9	7.3	9.2

Siemens Healthineers	21	7.41	0.18	2.4	7.5	7.0	7.7
Other Method	13	7.59	0.19	2.5	7.6	7.4	8.4
Canon Medical Systems (주) Toshiba Medical Systems)	1				7.5		
Caretium Medical Instruments	1				7.5		
Hitachi high-technologies corporation	1				7.6		
Nova Biomedical Corporation	1				8.4		
Others	7				7.6	7.5	8.1
Sekisui Medical	1				7.4		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				7.4		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1268	2.56	0.06	2.5	2.6	0.6	7.4
ISE, diluted	732	2.58	0.05	2.1	2.6	0.6	7.4
A&T	1				2.6		
Abbott	16	2.60	0.00	0.0	2.6	2.5	2.7
Beckman Coulter Inc.	150	2.58	0.04	1.7	2.6	0.6	7.4
Denka Seiken	46	2.58	0.04	1.6	2.6	2.5	2.7
Diamond diagnostics	13	2.69	0.17	6.2	2.7	2.3	2.9
JEOL	4				2.6	2.6	2.6
Roche	253	2.59	0.05	2.0	2.6	2.3	2.8
Sekisui Medical	199	2.56	0.05	2.1	2.6	2.4	2.7
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	10	2.65	0.07	2.7	2.6	2.6	2.8
Siemens Healthineers	40	2.50	0.00	0.0	2.5	2.4	2.6
ISE, undiluted	523	2.53	0.07	2.7	2.5	2.2	3.0
(주)아이센스	276	2.53	0.05	1.8	2.5	2.2	2.7
BioCARE	9				2.6	2.5	2.7
Biosystems	33	2.50	0.00	0.0	2.5	2.4	2.6

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Caretium Medical Instruments	39	2.57	0.10	3.7	2.6	2.4	3.0
CORNLEY HI-TECH CO., LTD	6				2.4	2.3	2.5
Fujifilm Corporation	5				2.4	2.4	2.4
Jokoh Co., Ltd.	20	2.63	0.09	3.6	2.7	2.4	3.0
MEDICA Corp.	27	2.51	0.09	3.7	2.5	2.3	2.7
Nova Biomedical Corporation	6				2.6	2.5	2.9
Ortho Clinical Diagnostics	6				2.6	2.5	2.6
Roche	75	2.51	0.11	4.5	2.5	2.2	2.8
Siemens Healthineers	21	2.50	0.08	3.4	2.5	2.3	2.6
Other Method	13	2.54	0.09	3.4	2.5	2.4	2.7
Canon Medical Systems (ㄱ Toshiba Medical Systems)	1				2.4		
Caretium Medical Instruments	1				2.6		
Hitachi high-technologies corporation	1				2.6		
Nova Biomedical Corporation	1				2.6		
Others	7				2.5	2.4	2.6
Sekisui Medical	1				2.5		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				2.7		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1268	4.01	0.06	1.4	4.0	3.7	7.7
ISE, diluted	732	4.02	0.05	1.3	4.0	3.7	7.7
A&T	1				4.1		
Abbott	16	4.06	0.05	1.2	4.1	4.0	4.1
Beckman Coulter Inc.	150	3.98	0.04	1.1	4.0	3.9	4.1
Denka Seiken	46	4.03	0.04	1.1	4.0	4.0	4.2
Diamond diagnostics	13	4.19	0.11	2.7	4.2	3.7	7.7
JEOL	4				4.0	4.0	4.1

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Roche	253	4.03	0.06	1.5	4.0	3.9	4.3
Sekisui Medical	199	4.02	0.04	1.0	4.0	3.9	4.2
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	10	4.11	0.06	1.5	4.1	4.0	4.3
Siemens Healthineers	40	4.00	0.00	0.0	4.0	3.9	4.1
ISE, undiluted	523	4.01	0.06	1.5	4.0	3.7	4.6
(주)아이센스	276	4.00	0.00	0.0	4.0	3.7	4.2
BioCARE	9				4.1	4.1	4.1
Biosystems	33	3.91	0.06	1.6	3.9	3.8	4.0
Caretium Medical Instruments	39	3.99	0.05	1.4	4.0	3.9	4.2
CORNLEY HI-TECH CO., LTD	6				3.9	3.8	4.0
Fujifilm Corporation	5				3.9	3.9	4.0
Jokoh Co., Ltd.	20	4.03	0.08	2.0	4.0	3.9	4.2
MEDICA Corp.	27	3.97	0.07	1.7	4.0	3.7	4.1
Nova Biomedical Corporation	6				4.1	4.0	4.5
Ortho Clinical Diagnostics	6				4.1	4.0	4.1
Roche	75	4.05	0.08	1.9	4.1	3.9	4.6
Siemens Healthineers	21	3.92	0.06	1.6	3.9	3.7	4.0
Other Method	13	4.02	0.10	2.5	4.0	3.9	4.2
Canon Medical Systems (주) Toshiba Medical Systems)	1				3.9		
Caretium Medical Instruments	1				4.0		
Hitachi high-technologies corporation	1				4.0		
Nova Biomedical Corporation	1				4.2		
Others	7				4.0	3.9	4.1
Sekisui Medical	1				4.0		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				4.2		

Sodium (Na)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1268	161.1	3.5	2.2	160	138	181
ISE, diluted	722	158.8	1.8	1.1	159	138	172
A&T	1				161		
Abbott	16	160.8	1.0	0.6	161	159	162
Beckman Coulter Inc.	150	156.8	1.3	0.8	157	153	161
Denka Seiken	46	159.7	1.0	0.6	160	157	166
Diamond diagnostics	13	163.3	3.0	1.9	164	138	167
JEOL	4				161	158	163
Roche	243	158.7	1.2	0.7	159	154	172
Sekisui Medical	199	159.7	1.0	0.6	160	156	164
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	10	162.8	2.6	1.6	163	160	168
Siemens Healthineers	40	158.7	1.7	1.1	159	155	163
ISE, undiluted	533	164.3	2.7	1.7	165	148	181
(주)아이 센스	275	165.6	1.2	0.7	166	156	175
BioCARE	9				166	160	169
Biosystems	33	162.5	2.3	1.4	163	158	167
Caretium Medical Instruments	39	160.9	2.0	1.3	161	156	172
CORNLEY HI-TECH CO., LTD	6				161	159	163
Fujifilm Corporation	5				165	163	167
Jokoh Co., Ltd.	20	159.5	1.2	0.7	160	148	162
MEDICA Corp.	27	164.6	2.6	1.6	165	159	168
Nova Biomedical Corporation	6				162	160	167
Ortho Clinical Diagnostics	6				165	164	168
Roche	86	163.5	2.4	1.5	164	152	181

Siemens Healthineers	21	163.8	2.8	1.7	164	159	168
Other Method	13	161.7	2.7	1.6	162	158	165
Canon Medical Systems (주) Toshiba Medical Systems)	1				159		
Caretium Medical Instruments	1				164		
Hitachi high-technologies corporation	1				162		
Nova Biomedical Corporation	1				165		
Others	7				160	158	165
Sekisui Medical	1				160		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				163		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1268	115.1	1.4	1.2	115	102	133
ISE, diluted	722	114.8	1.2	1.0	115	102	129
A&T	1				115		
Abbott	16	115.1	0.9	0.8	115	114	117
Beckman Coulter Inc.	150	114.1	0.8	0.7	114	111	129
Denka Seiken	46	115.3	1.0	0.8	115	112	119
Diamond diagnostics	13	116.1	3.0	2.5	117	109	119
JEOL	4				115	114	119
Roche	243	114.4	1.1	0.9	114	102	120
Sekisui Medical	199	115.6	0.8	0.7	116	112	124
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	10	115.6	1.5	1.3	115	114	119
Siemens Healthineers	40	115.5	1.3	1.1	116	113	119
ISE, undiluted	533	115.5	1.6	1.4	116	109	123
(주)아이센스	275	116.0	1.0	0.9	116	111	120
BioCARE	9				116	113	118
Biosystems	33	115.4	1.3	1.1	115	113	118

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Caretium Medical Instruments	39	114.6	2.2	1.9	115	109	119
CORNLEY HI-TECH CO., LTD	6				115	113	118
Fujifilm Corporation	5				116	115	117
Jokoh Co., Ltd.	20	114.9	2.3	2.0	115	109	119
MEDICA Corp.	27	116.2	1.5	1.3	116	113	120
Nova Biomedical Corporation	6				117	114	119
Ortho Clinical Diagnostics	6				115	114	117
Roche	86	113.4	1.8	1.6	114	109	123
Siemens Healthineers	21	115.6	2.0	1.8	115	112	120
Other Method	13	114.3	1.1	1.0	114	113	133
Canon Medical Systems (ㄱ Toshiba Medical Systems)	1				115		
Caretium Medical Instruments	1				114		
Hitachi high-technologies corporation	1				116		
Nova Biomedical Corporation	1				115		
Others	7				114	113	116
Sekisui Medical	1				113		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				133		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1268	137.0	1.8	1.3	137	125	165
ISE, diluted	722	136.2	1.4	1.0	136	126	165
A&T	1				140		
Abbott	16	137.1	0.7	0.5	137	136	138
Beckman Coulter Inc.	150	135.1	0.9	0.7	135	132	138
Denka Seiken	46	136.7	0.9	0.7	137	135	141
Diamond diagnostics	13	137.9	2.2	1.6	139	133	165
JEOL	4				137	136	140

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Roche	243	135.8	1.1	0.8	136	132	142
Sekisui Medical	199	137.0	0.9	0.6	137	133	140
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	10	137.9	0.8	0.6	138	126	142
Siemens Healthineers	40	136.6	1.4	1.1	137	133	141
ISE, undiluted	533	138.1	1.6	1.2	138	125	150
(주)아이센스	275	138.7	1.0	0.7	139	125	147
BioCARE	9				139	137	141
Biosystems	33	137.5	1.5	1.1	138	134	141
Caretium Medical Instruments	39	136.3	0.9	0.7	136	134	138
CORNLEY HI-TECH CO., LTD	6				137	135	139
Fujifilm Corporation	5				139	137	140
Jokoh Co., Ltd.	20	136.2	1.0	0.7	136	135	140
MEDICA Corp.	27	138.7	1.9	1.4	138	136	142
Nova Biomedical Corporation	6				139	137	141
Ortho Clinical Diagnostics	6				139	138	141
Roche	86	136.7	1.4	1.0	137	126	150
Siemens Healthineers	21	138.4	2.0	1.5	138	134	142
Other Method	13	136.3	1.3	1.0	136	134	139
Canon Medical Systems (ㄱ Toshiba Medical Systems)	1				136		
Caretium Medical Instruments	1				134		
Hitachi high-technologies corporation	1				138		
Nova Biomedical Corporation	1				139		
Others	7				136	135	137
Sekisui Medical	1				136		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	1				137		

Total bilirubin (T-BIL)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1815	6.774	0.421	6.2	6.78	2.70	9.35
Copper ion Oxidation	151	7.104	0.539	7.6	6.95	4.60	8.69
신양화학	1				6.81		
영인과학	2					6.95	7.00
(주)아이비디랩	5				6.90	6.28	7.32
(주)지디엘코리아	36	7.837	0.267	3.4	7.80	4.68	8.69
(주)티씨엠생명과학	11	6.809	0.530	7.8	6.89	4.60	7.70
Bion	53	7.011	0.368	5.3	7.00	5.50	7.90
Genematrix(구 진매트릭스바이오)	5				6.50	6.20	6.62
JW바이오사이언스(주)(구 JW중외메디칼)	38	6.789	0.246	3.6	6.80	5.50	7.40
Diazo-caffeine, Sodium Benzoate with blank	3				7.20	6.90	7.37
아산제약(주)	1				7.37		
Randox	1				7.20		
Siemens Healthineers	1				6.90		
Diazo-caffeine, Sodium Benzoate without blank	2					6.60	6.84
Genematrix(구 진매트릭스바이오)	2					6.60	6.84
Diazo-dimethyl sulfoxide with blank	28	7.165	0.549	7.7	7.08	6.19	8.30
Elitechgroup	17	6.885	0.267	3.9	6.90	6.19	7.24
Erba diagnostics	8				8.02	7.09	8.30
Sekisui Medical	3				7.00	6.60	7.10
Diazo-dimethyl sulfoxide without blank	36	6.501	0.487	7.5	6.51	2.70	8.42
Chema Diagnostica	3				6.50	6.40	6.60
LC Diagnostics	9				6.51	5.80	8.42
Stanbio	24	6.515	0.574	8.8	6.54	2.70	7.45

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Diazo-dyphylline with blank	14	7.501	0.483	6.4	7.60	6.30	8.00
Fujifilm Corporation	2					6.30	6.80
Ortho Clinical Diagnostics	12	7.659	0.270	3.5	7.65	7.10	8.00
Diazonium salt-dyphylline without blank	3				6.50	6.35	6.97
(주)티씨엠생명과학	3				6.50	6.35	6.97
Diazonium salt-Surfactant with blank	763	6.645	0.405	6.1	6.60	5.50	9.35
(주)아이비디랩	1				7.90		
Abbott	17	6.316	0.258	4.1	6.27	5.99	6.85
Beckman Coulter Inc.	233	7.053	0.147	2.1	7.04	6.09	8.10
Biosystems	126	6.665	0.337	5.1	6.70	5.52	9.35
Diasys	30	6.790	0.194	2.9	6.80	6.34	8.11
Roche	347	6.342	0.207	3.3	6.33	5.50	7.83
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	9				6.80	5.60	7.45
Diazonium salt-Surfactant without blank	21	7.269	0.619	8.5	7.45	6.20	8.20
아산제약(주)	5				6.47	6.20	6.69
(주)아이비디랩	4				7.70	6.92	7.73
(주)지디엘코리아	10	7.638	0.467	6.1	7.80	6.74	8.20
Beckman Coulter Inc.	2					7.10	7.30
Enzymatic oxidation	11	7.311	0.274	3.8	7.40	6.85	7.61
아산제약(주)	11	7.311	0.274	3.8	7.40	6.85	7.61
Other Method	20	6.801	0.357	5.3	6.72	4.70	7.50
(주)대광메디텍	1				7.03		
주식회사 한랩	1				6.70		
Others	12	6.848	0.340	5.0	6.77	6.40	7.50
Rayto Life and Analytical Sciences Co., Ltd.	1				7.30		
Thermo Fisher Scientific	5				6.40	4.70	6.90
Vanadate oxidation	763	6.801	0.331	4.9	6.80	5.50	8.30
주식회사 한랩	1				6.42		
(주)제이앤티 바이오(구 (주)젠바디)	5				6.42	6.00	7.00
PZ Cormay	75	7.034	0.470	6.7	7.00	5.95	8.30

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Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	145	6.868	0.247	3.6	6.87	5.74	8.12
Siemens Healthineers	41	7.566	0.213	2.8	7.60	6.85	8.20
SNIBE Co.,Ltd	3				6.70	6.17	7.76
Wako	493	6.707	0.242	3.6	6.70	5.50	7.50

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1815	0.651	0.074	11.3	0.64	0.18	8.00
Copper ion Oxidation	151	0.699	0.064	9.2	0.70	0.18	0.90
신양화학	1				0.72		
영인과학	2					0.74	0.80
(주)아이비디랩	5				0.60	0.54	0.70
(주)지디엘코리아	36	0.764	0.064	8.3	0.77	0.18	0.90
(주)티씨엠생명과학	11	0.716	0.058	8.1	0.70	0.50	0.80
Bion	53	0.682	0.049	7.2	0.70	0.50	0.80
Genematrix(구 진매트릭스바이오)	5				0.64	0.60	0.70
JW바이오사이언스(주)(구 JW중외메디칼)	38	0.674	0.037	5.5	0.69	0.60	0.75
Diazo-caffeine, Sodium Benzoate with blank	3				0.70	0.70	0.73
아산제약(주)	1				0.73		
Randox	1				0.70		
Siemens Healthineers	1				0.70		
Diazo-caffeine, Sodium Benzoate without blank	2					0.60	0.68
Genematrix(구 진매트릭스바이오)	2					0.60	0.68
Diazo-dimethyl sulfoxide with blank	28	0.556	0.082	14.7	0.53	0.40	0.70
Elitechgroup	17	0.509	0.035	6.8	0.50	0.40	0.58
Erba diagnostics	8				0.65	0.57	0.70
Sekisui Medical	3				0.60	0.60	0.70
Diazo-dimethyl sulfoxide without blank	36	0.683	0.136	19.9	0.65	0.50	1.00

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Chema Diagnostica	3				0.70	0.57	0.70
LC Diagnostics	9				0.65	0.50	0.72
Stanbio	24	0.708	0.155	21.9	0.70	0.50	1.00
Diazo-dyphylline with blank	14	0.736	0.106	14.4	0.71	0.50	0.90
Fujifilm Corporation	2					0.50	0.70
Ortho Clinical Diagnostics	12	0.758	0.086	11.4	0.76	0.60	0.90
Diazonium salt-dyphylline without blank	3				0.62	0.60	0.70
(주)티씨엠생명과학	3				0.62	0.60	0.70
Diazonium salt-Surfactant with blank	763	0.644	0.087	13.4	0.60	0.45	6.00
(주)아이비디랩	1				0.80		
Abbott	17	0.638	0.037	5.8	0.63	0.59	0.71
Beckman Coulter Inc.	233	0.751	0.032	4.3	0.75	0.59	0.90
Biosystems	126	0.614	0.065	10.6	0.60	0.50	6.00
Diasys	30	0.668	0.055	8.3	0.67	0.56	0.80
Roche	347	0.581	0.024	4.1	0.58	0.45	0.72
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	9				0.60	0.60	0.72
Diazonium salt-Surfactant without blank	21	0.735	0.051	6.9	0.72	0.64	0.82
아산제약(주)	5				0.70	0.68	0.72
(주)아이비디랩	4				0.78	0.74	0.81
(주)지디엘코리아	10	0.740	0.062	8.3	0.72	0.64	0.82
Beckman Coulter Inc.	2					0.70	0.74
Enzymatic oxidation	11	0.725	0.049	6.7	0.70	0.50	0.80
아산제약(주)	11	0.725	0.049	6.7	0.70	0.50	0.80
Other Method	20	0.598	0.074	12.4	0.60	0.43	8.00
(주)대광메디텍	1				0.63		
주식회사 한랩	1				0.65		
Others	12	0.572	0.074	12.9	0.60	0.43	0.70
Rayto Life and Analytical Sciences Co., Ltd.	1				8.00		
Thermo Fisher Scientific	5				0.70	0.60	5.00
Vanadate oxidation	763	0.651	0.046	7.1	0.65	0.20	6.50

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주식회사 한랩	1				0.60		
(주)제이앤티 바이오(구 (주)젠바디)	5				0.60	0.40	0.70
PZ Cormay	75	0.627	0.060	9.5	0.60	0.50	1.00
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	145	0.630	0.042	6.7	0.61	0.20	6.50
Siemens Healthineers	41	0.723	0.016	2.3	0.73	0.60	0.80
SNIBE Co.,Ltd	3				0.64	0.58	0.70
Wako	493	0.653	0.041	6.2	0.65	0.40	6.00

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1815	2.901	0.211	7.3	2.90	0.50	6.80
Copper ion Oxidation	151	3.043	0.252	8.3	3.00	1.73	3.70
신양화학	1				2.93		
영인과학	2					3.10	3.14
(주)아이비디랩	5				2.95	2.65	3.14
(주)지디엘코리아	36	3.377	0.159	4.7	3.34	1.73	3.70
(주)티씨엠생명과학	11	2.973	0.240	8.1	2.99	2.10	3.40
Bion	53	3.004	0.167	5.5	2.99	2.30	3.40
Genematrix(구 진매트릭스바이오)	5				2.74	2.51	2.90
JW바이오사이언스(주)(구 JW중외메디칼)	38	2.923	0.099	3.4	2.90	2.40	3.15
Diazo-caffeine, Sodium Benzoate with blank	3				3.00	0.50	3.19
아산제약(주)	1				3.19		
Randox	1				0.50		
Siemens Healthineers	1				3.00		
Diazo-caffeine, Sodium Benzoate without blank	2					2.77	2.85
Genematrix(구 진매트릭스바이오)	2					2.77	2.85
Diazo-dimethyl sulfoxide with blank	28	2.846	0.280	9.8	2.77	2.47	3.40
Elitechgroup	17	2.659	0.104	3.9	2.65	2.47	2.85

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Erba diagnostics	8				3.30	2.89	3.40
Sekisui Medical	3				3.00	2.80	3.00
Diazo-dimethyl sulfoxide without blank	36	2.779	0.202	7.3	2.80	1.30	3.28
Chema Diagnostica	3				2.80	2.70	2.80
LC Diagnostics	9				2.70	2.30	3.28
Stanbio	24	2.800	0.194	6.9	2.80	1.30	3.10
Diazo-dyphylline with blank	14	3.184	0.204	6.4	3.20	2.70	3.41
Fujifilm Corporation	2					2.70	2.90
Ortho Clinical Diagnostics	12	3.248	0.127	3.9	3.25	3.00	3.41
Diazonium salt-dyphylline without blank	3				2.95	2.73	3.12
(주)티씨엠생명과학	3				2.95	2.73	3.12
Diazonium salt-Surfactant with blank	763	2.873	0.239	8.3	2.80	2.40	6.80
(주)아이비디랩	1				3.40		
Abbott	17	2.667	0.134	5.0	2.60	2.49	2.94
Beckman Coulter Inc.	233	3.155	0.068	2.1	3.15	2.58	5.15
Biosystems	126	2.845	0.146	5.1	2.85	2.40	6.80
Diasys	30	2.910	0.104	3.6	2.90	2.73	3.27
Roche	347	2.686	0.098	3.6	2.68	2.40	3.32
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	9				2.90	2.40	3.15
Diazonium salt-Surfactant without blank	21	3.127	0.257	8.2	3.18	2.70	3.43
아산제약(주)	5				2.79	2.70	2.94
(주)아이비디랩	4				3.38	2.95	3.43
(주)지디엘코리아	10	3.222	0.216	6.7	3.34	2.90	3.41
Beckman Coulter Inc.	2					3.15	3.20
Enzymatic oxidation	11	3.154	0.123	3.9	3.20	2.95	3.30
아산제약(주)	11	3.154	0.123	3.9	3.20	2.95	3.30
Other Method	20	2.858	0.112	3.9	2.90	2.10	3.30
(주)대광메디텍	1				2.90		
주식회사 한랩	1				2.88		
Others	12	2.858	0.116	4.0	2.90	2.60	3.00

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Rayto Life and Analytical Sciences Co., Ltd.	1				3.30		
Thermo Fisher Scientific	5				2.80	2.10	3.00
Vanadate oxidation	763	2.901	0.133	4.6	2.90	0.63	6.63
주식회사 한랩	1				2.82		
(주)제이앤티 바이오(구 (주)젠바디)	5				2.90	2.20	4.90
PZ Cormay	75	2.902	0.190	6.6	2.90	2.50	3.40
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	145	2.892	0.111	3.8	2.90	2.42	3.44
Siemens Healthineers	41	3.233	0.075	2.3	3.23	2.86	3.50
SNIBE Co.,Ltd	3				2.97	2.36	3.00
Wako	493	2.880	0.103	3.6	2.89	0.63	6.63



Total cholesterol

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1952	278.3	8.3	3.0	278	61	454
Cholesterol esterase	1936	278.4	8.3	3.0	278	61	454
신양화학	6				280	272	283
아산제약(주)	17	277.8	6.3	2.3	278	254	285
영인과학	2					270	272
주식회사 한랩	1				280		
(주)신화메디	2					286	297
(주)아이비디랩	13	272.8	7.9	2.9	273	258	288
(주)에스더블유헬스케어(구. 이든하이텍)	4				276	273	305
(주)제이앤티 바이오(구 (주)젠바디)	3				263	261	268
(주)지디엘코리아	58	270.2	6.4	2.4	271	253	293
(주)티씨엠생명과학	13	268.2	5.9	2.2	267	259	275
Abbott	17	266.4	4.1	1.6	267	257	272
Beckman Coulter Inc.	255	274.3	6.2	2.3	274	228	365
Bion	58	281.4	10.0	3.5	283	263	313
Biosystems	142	285.3	10.0	3.5	285	248	454
Chema Diagnostica	3				275	273	281
Diasys	28	281.2	8.9	3.2	282	61	296
Elitechgroup	18	279.1	10.2	3.7	281	255	294
Erba diagnostics	8				275	259	286
Fujifilm Corporation	2					269	280
Genematrix(구 진메트릭스바이오)	5				265	252	281
JW바이오사이언스(주)(구 JW중외메디칼)	42	288.0	6.5	2.2	288	274	305
LC Diagnostics	6				269	237	279

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Minaris Medical co., Ltd	9				283	280	292
Ortho Clinical Diagnostics	13	279.8	8.1	2.9	279	263	296
PZ Cormay	78	274.6	12.1	4.4	276	238	336
Roche	358	275.1	4.9	1.8	275	248	294
Sekisui Medical	317	283.5	4.7	1.7	283	246	310
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	167	275.5	6.3	2.3	275	240	294
Shino-Test Corporation	90	282.4	7.7	2.7	282	253	311
Siemens Healthineers	40	276.3	4.8	1.7	276	250	293
SNIBE Co.,Ltd	3				270	265	277
Stanbio	35	279.8	9.9	3.5	279	113	300
Thermo Fisher Scientific	8				271	206	288
Wako	115	281.7	6.4	2.3	281	265	310
Other Method	16	273.1	8.4	3.1	275	253	284
(주)대광메디텍	1				269		
주식회사 한랩	1				281		
Beckman Coulter Inc.	1				274		
Others	12	273.8	8.5	3.1	275	253	284
Rayto Life and Analytical Sciences Co., Ltd.	1				260		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1952	112.4	3.7	3.3	112	43	178
Cholesterol esterase	1936	112.4	3.7	3.3	112	43	178
신양화학	6				112	108	113
아산제약(주)	17	112.6	3.0	2.7	114	102	116
영인과학	2					108	109
주식회사 한랩	1				110		
(주)신화메디	2					115	118

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㈜아이비디랩	13	113.5	3.4	3.0	112	108	118
㈜에스더블유헬스케어(구. 이든하이텍)	4				115	110	124
㈜제이앤티 바이오(구 ㈜젠바디)	3				108	106	110
㈜지디엘코리아	58	109.3	3.6	3.3	109	100	121
㈜티씨엠생명과학	13	112.8	1.7	1.5	113	110	116
Abbott	17	110.4	1.7	1.5	110	108	117
Beckman Coulter Inc.	255	110.4	3.0	2.8	110	97	130
Bion	58	112.8	4.1	3.6	113	105	123
Biosystems	142	116.4	5.4	4.6	117	99	142
Chema Diagnostica	3				113	109	118
Diasys	28	117.4	4.2	3.6	116	99	127
Elitechgroup	18	113.4	4.1	3.6	114	107	121
Erba diagnostics	8				112	102	115
Fujifilm Corporation	2					107	112
Genematrix(구 진매트릭스바이오)	5				109	103	115
JW바이오사이언스㈜(구 JW중외메디칼)	42	116.8	2.6	2.2	117	111	124
LC Diagnostics	6				106	103	109
Minaris Medical co., Ltd	9				113	111	115
Ortho Clinical Diagnostics	13	105.5	3.1	3.0	105	100	112
PZ Cormay	78	113.1	5.2	4.6	114	96	146
Roche	358	112.1	2.7	2.4	112	102	121
Sekisui Medical	317	112.2	2.2	2.0	112	100	122
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	167	113.2	3.0	2.6	113	101	125
Shino-Test Corporation	90	112.5	3.4	3.0	112	99	126
Siemens Healthineers	40	111.5	2.1	1.9	111	101	117
SNIBE Co.,Ltd	3				108	107	110
Stanbio	35	115.6	5.5	4.8	114	43	130
Thermo Fisher Scientific	8				114	85	121
Wako	115	112.2	2.4	2.2	112	105	178
Other Method	16	113.1	3.4	3.0	112	93	120

(주)대광메디텍	1				112		
주식회사 한랩	1				112		
Beckman Coulter Inc.	1				110		
Others	12	114.0	3.5	3.0	113	93	120
Rayto Life and Analytical Sciences Co., Ltd.	1				109		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1952	178.8	5.2	2.9	178	78	315
Cholesterol esterase	1936	178.8	5.2	2.9	178	78	315
신양화학	6				180	171	183
아산제약(주)	17	179.4	4.4	2.5	180	164	186
영인과학	2					174	175
주식회사 한랩	1				178		
(주)신화메디	2					185	190
(주)아이비디랩	13	177.1	4.5	2.5	178	170	185
(주)에스더블유헬스케어(구. 이든하이텍)	4				181	177	194
(주)제이앤티 바이오(구 (주)젠마디)	3				173	167	174
(주)지디엘코리아	58	174.6	4.2	2.4	175	159	186
(주)티씨엠생명과학	13	175.5	5.3	3.0	175	168	186
Abbott	17	174.6	2.9	1.7	174	169	180
Beckman Coulter Inc.	255	176.0	4.2	2.4	176	145	204
Bion	58	178.9	6.3	3.5	180	165	193
Biosystems	142	183.9	6.8	3.7	184	160	315
Chema Diagnostica	3				176	172	184
Diasys	28	182.6	4.6	2.5	182	165	194
Elitechgroup	18	181.7	6.8	3.8	183	170	192
Erba diagnostics	8				181	165	187

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Fujifilm Corporation	2				175	181
Genematrix(구 진매트릭스바이오)	5				171	163
JW바이오사이언스(주)(구 JW중외메디칼)	42	184.6	4.1	2.2	185	176
LC Diagnostics	6				175	157
Minaris Medical co., Ltd	9				180	178
Ortho Clinical Diagnostics	13	176.1	3.8	2.1	176	172
PZ Cormay	78	179.4	7.2	4.0	180	155
Roche	358	177.0	3.5	2.0	177	162
Sekisui Medical	317	180.4	3.1	1.7	180	161
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	167	178.0	3.8	2.2	178	117
Shino-Test Corporation	90	180.2	5.4	3.0	180	164
Siemens Healthineers	40	178.1	3.2	1.8	178	161
SNIBE Co.,Ltd	3				174	174
Stanbio	35	181.4	5.1	2.8	182	78
Thermo Fisher Scientific	8				179	136
Wako	115	179.6	3.8	2.1	179	113
Other Method	16	177.8	4.7	2.7	179	168
(주)대광메디텍	1				178	
주식회사 한랩	1				180	
Beckman Coulter Inc.	1				177	
Others	12	178.5	4.6	2.6	180	170
Rayto Life and Analytical Sciences Co., Ltd.	1				168	



Total CO2

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	N	Mean	SD	CV(%)	Median	Min	Max
All	281	25.86	1.71	6.6	25.8	21.0	32.9
Other Method	1				27.5		
Others	1				27.5		
Phosphoenolpyruvate carboxylase (PEPC)	280	25.87	1.68	6.5	25.8	21.0	32.9
(주)아이비디랩	29	26.94	1.27	4.7	27.0	24.3	30.1
Abbott	6				24.5	21.1	27.0
Beckman Coulter Inc.	48	27.59	1.47	5.3	28.0	23.7	32.9
Beijing Strong Biotechnologies	16	27.12	1.47	5.4	27.1	24.5	30.3
Diasys	22	24.87	0.57	2.3	25.0	22.4	26.1
JW바이오사이언스(주)(구 JW중외메디칼)	5				28.2	21.4	32.0
Medical system Biotechnology	5				27.0	26.5	28.0
Ortho Clinical Diagnostics	2					26.2	27.0
Randox	2					26.4	26.9
Roche	117	24.76	0.98	4.0	24.9	21.0	26.8
Siemens Healthineers	28	26.51	0.80	3.0	26.6	24.5	28.1

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	N	Mean	SD	CV(%)	Median	Min	Max
All	281	15.95	1.15	7.2	16.0	13.0	20.5
Other Method	1				18.4		
Others	1				18.4		
Phosphoenolpyruvate carboxylase (PEPC)	280	15.94	1.15	7.2	16.0	13.0	20.5
(주)아이비디랩	29	16.94	1.53	9.1	17.0	14.2	20.2

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Abbott	6				15.1	13.3	18.0
Beckman Coulter Inc.	48	16.16	0.62	3.9	16.1	14.0	18.0
Beijing Strong Biotechnologies	16	17.23	0.78	4.5	17.3	15.9	20.5
Diasys	22	15.31	0.62	4.0	15.3	14.0	16.2
JW바이오사이언스(주)(구 JW중외메디칼)	5				18.6	13.8	20.1
Medical system Biotechnology	5				17.6	16.0	17.8
Ortho Clinical Diagnostics	2					14.5	16.0
Randox	2					17.4	18.3
Roche	117	15.34	0.71	4.6	15.3	13.0	18.0
Siemens Healthineers	28	16.87	0.51	3.1	17.0	14.9	18.2

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	N	Mean	SD	CV(%)	Median	Min	Max
All	281	19.76	1.37	6.9	19.7	16.0	24.7
Other Method	1				22.6		
Others	1				22.6		
Phosphoenolpyruvate carboxylase (PEPC)	280	19.75	1.31	6.7	19.7	16.0	24.7
(주)아이비디랩	29	20.98	1.32	6.3	21.2	18.1	24.1
Abbott	6				18.7	16.3	21.0
Beckman Coulter Inc.	48	20.38	0.81	4.0	20.4	17.5	22.3
Beijing Strong Biotechnologies	16	20.95	1.07	5.1	21.2	18.3	24.7
Diasys	22	18.93	0.72	3.8	19.0	17.2	20.0
JW바이오사이언스(주)(구 JW중외메디칼)	5				22.0	16.9	24.4
Medical system Biotechnology	5				21.8	21.3	22.0
Ortho Clinical Diagnostics	2					18.5	19.0
Randox	2					20.8	21.3
Roche	117	18.97	0.79	4.2	19.0	16.0	22.0
Siemens Healthineers	28	20.59	0.50	2.4	20.6	18.5	21.6

Total iron-binding capacity (TIBC)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	436	349.8	9.4	2.7	349	196	539
Bathophenanthroline	80	352.4	7.5	2.1	352	325	379
Wako	80	352.4	7.5	2.1	352	325	379
Chromazural B	29	339.1	8.2	2.4	340	293	353
Ortho Clinical Diagnostics	3				308	293	328
Siemens Healthineers	26	339.5	8.1	2.4	340	319	353
Ferene	13	343.8	15.3	4.4	340	327	376
Abbott	13	343.8	15.3	4.4	340	327	376
Ferrozine	162	346.2	7.6	2.2	345	196	394
아산제약(주)	1				394		
영인과학	1				358		
(주)아이비디랩	1				347		
(주)지디엘코리아	1				351		
Biosystems	3				341	332	346
Roche	155	346.2	7.6	2.2	345	196	368
Nitroso-PSAP	151	354.3	7.8	2.2	354	337	539
신양화학	1				351		
Beckman Coulter Inc.	77	359.3	5.8	1.6	359	338	383
Minaris Medical co., Ltd	8				352	337	358
Shino-Test Corporation	65	348.8	4.5	1.3	349	338	539
Other Method	1				312		
Others	1				312		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	436	206.5	8.4	4.1	205	171	244
Bathophenanthroline	80	203.4	6.2	3.1	203	175	228
Wako	80	203.4	6.2	3.1	203	175	228
Chromazural B	29	226.8	5.7	2.5	227	214	241
Ortho Clinical Diagnostics	3				230	228	233
Siemens Healthineers	26	226.4	5.8	2.6	227	214	241
Ferene	13	189.5	7.6	4.0	189	175	242
Abbott	13	189.5	7.6	4.0	189	175	242
Ferrozine	162	204.0	5.3	2.6	204	171	244
아산제약(주)	1				244		
영인과학	1				227		
(주)아이비디랩	1				204		
(주)지디엘코리아	1				215		
Biosystems	3				214	197	224
Roche	155	203.9	5.2	2.6	203	171	228
Nitroso-PSAP	151	208.2	6.4	3.1	209	189	227
신양화학	1				210		
Beckman Coulter Inc.	77	211.3	4.9	2.3	211	198	227
Minaris Medical co., Ltd	8				205	191	211
Shino-Test Corporation	65	204.1	4.9	2.4	205	189	220
Other Method	1				194		
Others	1				194		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	436	266.7	8.9	3.3	266	165	306

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Bathophenanthroline	80	265.3	7.1	2.7	265	235	293
Wako	80	265.3	7.1	2.7	265	235	293
Chromazural B	29	285.8	9.2	3.2	287	251	306
Ortho Clinical Diagnostics	3				262	251	272
Siemens Healthineers	26	287.2	7.7	2.7	288	272	306
Ferene	13	252.3	8.9	3.5	249	244	294
Abbott	13	252.3	8.9	3.5	249	244	294
Ferrozine	162	263.7	5.7	2.2	263	165	300
아산제약주)	1				300		
영인과학	1				281		
(주)아이비디랩	1				261		
(주)지디엘코리아	1				268		
Biosystems	3				263	256	273
Roche	155	263.6	5.5	2.1	263	165	286
Nitroso-PSAP	151	268.1	6.9	2.6	269	249	290
신양화학	1				269		
Beckman Coulter Inc.	77	272.1	5.3	1.9	272	257	290
Minaris Medical co., Ltd	8				267	251	272
Shino-Test Corporation	65	263.8	4.3	1.6	264	249	289
Other Method	1				244		
Others	1				244		



Total protein

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1783	7.06	0.21	3.0	7.0	3.0	8.6
Biuret method	1770	7.06	0.21	3.0	7.0	3.0	8.6
신양화학	6				7.1	7.0	7.2
아산제약(주)	15	7.06	0.21	3.0	7.1	6.6	7.4
(주)신화메디	18	6.95	0.18	2.7	6.9	6.5	7.7
(주)아이비디랩	11	7.10	0.12	1.7	7.1	6.9	7.3
(주)에스더블유헬스케어(구. 이든하이텍)	5				7.2	7.1	7.7
(주)제이엔티 바이오(구 (주)젠바디)	3				7.0	6.8	7.4
(주)지디엘코리아	46	7.06	0.18	2.6	7.1	6.7	7.7
(주)티씨엠생명과학	12	7.19	0.16	2.2	7.2	7.0	7.5
Abbott	17	7.06	0.07	1.0	7.1	6.9	7.3
Beckman Coulter Inc.	240	6.98	0.13	1.8	7.0	6.3	7.6
Bion	44	7.17	0.20	2.8	7.2	6.0	7.7
Biosystems	122	7.16	0.20	2.9	7.1	4.4	8.6
Chema Diagnostica	1				7.0		
Diasys	22	7.15	0.35	4.9	7.1	6.5	8.0
Elitechgroup	16	7.15	0.12	1.6	7.1	7.0	7.3
Erba diagnostics	7				6.9	6.2	7.3
Fujifilm Corporation	1				6.4		
Genematrix(구 진메트릭스바이오)	4				7.1	6.9	7.2
JW바이오사이언스(주)(구 JW중외메디칼)	37	7.41	0.14	1.9	7.4	7.1	7.7
LC Diagnostics	13	7.04	0.21	3.0	7.1	6.1	7.3
Ortho Clinical Diagnostics	12	6.61	0.16	2.4	6.6	6.3	6.9
PZ Cormay	65	7.04	0.23	3.2	7.0	6.0	7.7

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Randox	1				6.9		
Roche	340	6.94	0.13	1.9	6.9	6.5	7.6
Sekisui Medical	343	7.06	0.15	2.2	7.1	6.0	7.9
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	155	7.29	0.22	3.0	7.3	6.5	8.1
Siemens Healthineers	42	7.11	0.11	1.6	7.1	6.9	7.6
SNIBE Co.,Ltd	4				6.9	6.7	6.9
Stanbio	28	7.07	0.23	3.3	7.0	3.0	7.6
Thermo Fisher Scientific	7				7.0	6.6	7.3
Wako	133	7.07	0.17	2.4	7.1	6.6	7.6
Other Method	13	7.04	0.26	3.8	7.0	3.7	7.5
(주)대광메디텍	1				6.9		
주식회사 한랩	1				7.1		
Others	10	7.10	0.25	3.6	7.1	3.7	7.5
Rayto Life and Analytical Sciences Co., Ltd.	1				6.6		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1783	4.09	0.11	2.8	4.1	1.8	5.3
Biuret method	1770	4.09	0.11	2.7	4.1	1.8	5.3
신양화학	6				4.1	4.0	4.2
아산제약(주)	15	4.07	0.12	2.9	4.1	3.8	4.2
(주)신화메디	18	4.01	0.06	1.5	4.0	3.8	4.5
(주)아이비디랩	11	4.11	0.07	1.8	4.1	2.7	4.2
(주)에스더블유헬스케어(구. 이든하이텍)	5				4.2	4.1	4.3
(주)제이앤티 바이오(구 (주)젠바디)	3				4.1	4.0	4.3
(주)지디엘코리아	46	4.05	0.11	2.6	4.1	3.8	4.5
(주)티씨엠생명과학	12	4.18	0.13	3.2	4.2	4.0	4.5
Abbott	17	3.90	0.05	1.3	3.9	3.8	4.1

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Beckman Coulter Inc.	240	4.07	0.07	1.8	4.1	3.6	4.4
Bion	44	4.13	0.14	3.4	4.1	3.8	4.5
Biosystems	122	4.18	0.14	3.2	4.2	3.3	5.3
Chema Diagnostica	1				4.3		
Diasys	22	4.15	0.12	3.0	4.1	3.7	5.2
Elitechgroup	16	4.08	0.10	2.4	4.1	3.9	4.2
Erba diagnostics	7				3.9	3.3	4.1
Fujifilm Corporation	1				3.7		
Genematrix(구 진메트릭스바이오)	4				4.1	3.9	4.5
JW바이오사이언스(주)(구 JW중외메디칼)	37	4.30	0.10	2.4	4.3	3.9	4.5
LC Diagnostics	13	4.06	0.13	3.2	4.1	3.6	4.2
Ortho Clinical Diagnostics	12	3.98	0.07	1.8	4.0	3.9	4.1
PZ Cormay	65	4.12	0.15	3.7	4.1	3.5	4.7
Randox	1				4.0		
Roche	340	4.08	0.09	2.1	4.1	3.6	4.5
Sekisui Medical	343	4.08	0.09	2.2	4.1	2.4	4.5
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	155	4.11	0.12	2.9	4.1	3.7	4.9
Siemens Healthineers	42	4.09	0.08	1.9	4.1	3.9	4.4
SNIBE Co.,Ltd	4				4.2	3.9	4.2
Stanbio	28	4.19	0.19	4.6	4.1	1.8	4.6
Thermo Fisher Scientific	7				4.1	3.9	4.3
Wako	133	4.05	0.07	1.8	4.1	2.5	5.3
Other Method	13	4.06	0.21	5.2	4.1	3.7	4.4
(주)대광메디텍	1				4.0		
주식회사 한랩	1				4.0		
Others	10	4.09	0.23	5.7	4.2	3.7	4.4
Rayto Life and Analytical Sciences Co., Ltd.	1				3.9		

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1783	5.21	0.14	2.7	5.2	2.2	7.1
Biuret method	1770	5.21	0.14	2.7	5.2	2.2	7.1
신양화학	6				5.3	5.1	5.3
아산제약(주)	15	5.21	0.19	3.6	5.2	4.8	5.4
(주)신화메디	18	5.17	0.08	1.5	5.2	4.8	5.6
(주)아이비디랩	11	5.27	0.12	2.3	5.3	5.1	5.5
(주)에스더블유헬스케어(구. 이든하이텍)	5				5.3	5.2	5.6
(주)제이앤티 바이오(구 (주)젠바디)	3				5.2	5.1	5.5
(주)지디엘코리아	46	5.20	0.12	2.4	5.2	5.0	5.7
(주)티씨엠생명과학	12	5.34	0.11	2.0	5.4	5.2	5.5
Abbott	17	5.08	0.08	1.5	5.1	5.0	5.2
Beckman Coulter Inc.	240	5.16	0.10	1.9	5.2	4.7	5.6
Bion	44	5.28	0.19	3.5	5.3	4.7	5.8
Biosystems	122	5.33	0.16	3.0	5.3	3.2	7.0
Chema Diagnostica	1				5.3		
Diasys	22	5.24	0.21	4.0	5.2	4.7	6.1
Elitechgroup	16	5.23	0.12	2.3	5.2	5.0	5.4
Erba diagnostics	7				5.0	4.4	5.3
Fujifilm Corporation	1				4.6		
Genematrix(구 진매트릭스바이오)	4				5.2	5.1	5.3
JW바이오사이언스(주)(구 JW중외메디칼)	37	5.48	0.16	2.9	5.5	5.1	5.8
LC Diagnostics	13	5.18	0.15	2.8	5.2	4.6	5.4
Ortho Clinical Diagnostics	12	4.98	0.11	2.3	5.0	4.8	5.2
PZ Cormay	65	5.26	0.18	3.4	5.3	4.2	5.8
Randox	1				5.3		
Roche	340	5.16	0.11	2.1	5.2	4.8	5.7
Sekisui Medical	343	5.21	0.11	2.1	5.2	4.5	7.1

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Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	155	5.29	0.14	2.6	5.3	4.8	6.0
Siemens Healthineers	42	5.22	0.09	1.8	5.2	5.0	5.6
SNIBE Co.,Ltd	4				5.2	5.1	5.3
Stanbio	28	5.30	0.21	4.0	5.3	2.2	5.7
Thermo Fisher Scientific	7				5.2	4.8	5.5
Wako	133	5.19	0.09	1.8	5.2	4.1	5.7
Other Method	13	5.20	0.17	3.2	5.2	4.9	5.5
(주)대광메디텍	1				5.2		
주식회사 한랩	1				5.1		
Others	10	5.28	0.11	2.1	5.2	4.9	5.5
Rayto Life and Analytical Sciences Co., Ltd.	1				4.9		



Triglyceride

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1906	210.6	9.6	4.6	210	80	277
Enzymatic with free glycerol elimination	637	214.2	9.7	4.5	213	181	277
신양화학	1				231		
아산제약(주)	10	209.1	5.9	2.8	209	200	219
주식회사 한랩	1				210		
(주)제이앤티 바이오(구 (주)젠바디)	2					197	203
(주)지디엘코리아	33	192.6	6.3	3.2	193	181	250
(주)티씨엠생명과학	10	213.4	17.1	8.0	210	192	243
Bion	57	211.4	11.4	5.4	212	181	235
Fujifilm Corporation	2					204	215
Minaris Medical co., Ltd	9				215	209	219
Sekisui Medical	290	212.6	5.3	2.5	212	196	277
Shino-Test Corporation	93	225.7	8.4	3.7	226	197	248
Wako	129	214.9	8.0	3.7	213	191	241
Enzymatic without free glycerol elimination	1244	209.0	8.9	4.3	209	80	253
아산제약(주)	5				203	197	211
영인과학	2					209	212
(주)아이비디랩	13	209.8	5.4	2.6	210	188	222
(주)에스더블유헬스케어(구. 이든하이텍)	3				207	205	209
(주)지디엘코리아	24	194.1	6.1	3.1	195	182	212
(주)티씨엠생명과학	2					199	225
Abbott	16	205.1	4.0	1.9	205	200	214
Beckman Coulter Inc.	251	214.3	5.2	2.4	215	185	238
Biosystems	137	199.9	7.6	3.8	200	173	235

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Chema Diagnostica	3				210	205	214
Diasys	28	207.6	6.0	2.9	208	181	220
Elitechgroup	19	204.1	8.7	4.3	203	189	221
Erba diagnostics	8				208	198	221
Genematrix(구 진메트릭스바이오)	4				215	188	227
JW바이오사이언스(주)(구 JW중외메디칼)	46	220.7	4.8	2.2	221	203	253
LC Diagnostics	6				214	206	222
Ortho Clinical Diagnostics	13	231.6	5.7	2.4	231	223	242
PZ Cormay	68	218.4	10.0	4.6	216	201	242
Roche	351	207.6	3.9	1.9	207	181	223
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	153	203.5	7.5	3.7	204	182	229
Siemens Healthineers	40	219.7	5.5	2.5	219	194	232
SNIBE Co.,Ltd	2					215	234
Stanbio	41	203.9	12.1	6.0	203	80	228
Thermo Fisher Scientific	9				214	202	223
Other Method	25	204.5	8.2	4.0	205	191	222
(주)대광메디텍	1				214		
주식회사 한랩	1				211		
Beckman Coulter Inc.	1				210		
Others	13	204.4	7.7	3.8	205	192	218
Rayto Life and Analytical Sciences Co., Ltd.	1				206		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	8				200	191	222

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1906	99.2	5.1	5.1	99	34	152
Enzymatic with free glycerol elimination	637	97.2	5.1	5.2	96	81	152
신양화학	1				107		

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아산제약주	10	97.8	3.2	3.3	98	93	104
주식회사 한랩	1				93		
(주)제이앤티 바이오(구 (주)젠바디)	2					97	100
(주)지디엘코리아	33	88.6	3.7	4.2	89	81	99
(주)티씨엠생명과학	10	107.3	7.9	7.3	107	94	119
Bion	57	105.7	5.0	4.7	106	93	119
Fujifilm Corporation	2					91	103
Minaris Medical co., Ltd	9				96	94	98
Sekisui Medical	290	94.9	2.7	2.8	95	87	107
Shino-Test Corporation	93	101.7	3.3	3.2	102	88	110
Wako	129	97.0	3.4	3.6	97	84	152
Enzymatic without free glycerol elimination	1244	100.3	4.5	4.5	100	34	140
아산제약주	5				100	96	105
영인과학	2					99	99
(주)아이비디랩	13	100.8	4.0	3.9	100	95	109
(주)에스더블유헬스케어(구. 이든하이텍)	3				100	99	136
(주)지디엘코리아	24	92.1	3.8	4.2	92	84	111
(주)티씨엠생명과학	2					101	111
Abbott	16	96.7	1.7	1.8	97	93	100
Beckman Coulter Inc.	251	98.9	2.3	2.4	99	84	110
Biosystems	137	97.2	3.5	3.6	97	76	117
Chema Diagnostica	3				99	88	101
Diasys	28	98.9	3.5	3.6	99	85	105
Elitechgroup	19	100.2	5.9	5.9	100	91	115
Erba diagnostics	8				99	85	129
Genematrix(구 진매트릭스바이오)	4				107	84	140
JW바이오사이언스(주)(구 JW중외메디칼)	46	111.7	3.9	3.5	112	100	125
LC Diagnostics	6				101	99	105
Ortho Clinical Diagnostics	13	103.0	2.1	2.0	103	99	107
PZ Cormay	68	104.2	5.0	4.8	103	96	123

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Roche	351	102.1	2.5	2.4	102	88	112
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	153	98.7	3.4	3.4	99	88	112
Siemens Healthineers	40	102.4	3.9	3.8	102	88	110
SNIBE Co.,Ltd	2					110	112
Stanbio	41	96.2	7.7	8.0	95	34	115
Thermo Fisher Scientific	9				101	96	104
Other Method	25	98.8	4.1	4.1	98	89	109
(주)대광메디텍	1				100		
주식회사 한랩	1				94		
Beckman Coulter Inc.	1				100		
Others	13	99.3	5.2	5.3	98	89	109
Rayto Life and Analytical Sciences Co., Ltd.	1				103		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	8				98	95	100

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1906	135.7	5.6	4.2	135	54	211
Enzymatic with free glycerol elimination	637	135.7	6.0	4.5	135	85	211
신양화학	1				149		
아산제약(주)	10	136.7	4.7	3.4	136	130	146
주식회사 한랩	1				133		
(주)제이엔티 바이오(구 (주)젠바디)	2					132	138
(주)지디엘코리아	33	124.0	5.0	4.0	124	85	138
(주)티씨엠생명과학	10	142.8	11.1	7.8	140	124	160
Bion	57	138.6	6.5	4.7	140	118	154
Fujifilm Corporation	2					131	136
Minaris Medical co., Ltd	9				135	132	138
Sekisui Medical	290	133.9	3.4	2.5	134	123	150

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Shino-Test Corporation	93	142.6	4.8	3.4	142	123	153
Wako	129	136.2	5.0	3.7	135	98	211
Enzymatic without free glycerol elimination	1244	135.7	5.4	4.0	136	54	207
아산제약(주)	5				130	127	138
영인과학	2					134	136
(주)아이비디랩	13	136.8	3.8	2.8	136	129	143
(주)에스더블유헬스케어(구. 이든하이텍)	3				134	127	166
(주)지디엘코리아	24	125.7	4.2	3.3	126	112	145
(주)티씨엠생명과학	2					132	148
Abbott	16	131.8	2.3	1.7	132	128	136
Beckman Coulter Inc.	251	135.7	3.2	2.4	136	116	149
Biosystems	137	131.0	4.8	3.7	131	108	202
Chema Diagnostica	3				137	134	138
Diasys	28	135.3	2.5	1.8	135	116	141
Elitechgroup	19	133.5	5.5	4.1	133	124	146
Erba diagnostics	8				136	120	183
Genematrix(구 진매트릭스바이오)	4				137	122	141
JW바이오사이언스(주)(구 JW중외메디칼)	46	146.3	4.6	3.2	147	135	158
LC Diagnostics	6				135	133	144
Ortho Clinical Diagnostics	13	143.7	3.3	2.3	143	137	150
PZ Cormay	68	141.5	6.4	4.5	141	131	207
Roche	351	136.8	3.1	2.2	136	120	148
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	153	132.9	4.3	3.2	133	119	167
Siemens Healthineers	40	141.2	4.2	3.0	141	120	152
SNIBE Co.,Ltd	2					134	154
Stanbio	41	132.2	7.6	5.7	133	54	153
Thermo Fisher Scientific	9				143	133	149
Other Method	25	132.7	4.7	3.5	132	124	145
(주)대광메디텍	1				137		
주식회사 한랩	1				131		

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Beckman Coulter Inc.	1				136		
Others	13	134.1	5.4	4.0	133	127	145
Rayto Life and Analytical Sciences Co., Ltd.	1				124		
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	8				131	129	133



대한진단검사정도관리협회
Korean Association of External Quality Assessment Service



Uric acid (UA)

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1481	9.45	0.26	2.7	9.5	5.4	95.0
Other Method	11	9.14	0.36	4.0	9.2	8.5	9.6
주식회사 한랩	1				9.5		
Beckman Coulter Inc.	1				9.2		
Others	9				9.0	8.5	9.6
Uricase	1460	9.45	0.26	2.7	9.5	5.4	95.0
신양화학	3				9.5	9.4	9.6
아산제약(주)	14	9.34	0.41	4.4	9.3	7.6	10.0
(주)아이비디랩	7				9.6	9.4	9.6
(주)제이앤티 바이오(구 (주)젠바디)	4				9.2	8.6	9.6
(주)지디엘코리아	31	9.42	0.24	2.5	9.4	8.5	10.7
(주)티씨엠생명과학	8				9.0	8.5	9.3
Abbott	16	9.51	0.11	1.1	9.5	9.3	9.7
Beckman Coulter Inc.	217	9.55	0.19	1.9	9.6	9.0	10.5
Bion	42	9.45	0.38	4.1	9.4	8.0	10.5
Biosystems	84	8.98	0.32	3.5	9.0	6.5	9.8
Chema Diagnostica	2					8.8	9.3
Diasys	14	9.59	0.21	2.1	9.6	9.3	9.9
Elitechgroup	6				9.2	8.4	9.4
Erba diagnostics	3				10.0	8.5	10.0
Genematrix(구 진메트릭스바이오)	1				9.5		
JW바이오사이언스(주)(구 JW중외메디칼)	32	9.46	0.25	2.7	9.4	8.8	10.0
LC Diagnostics	3				9.5	9.2	9.7
PZ Cormay	52	9.17	0.31	3.4	9.2	8.0	9.9

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Randox	1				9.4		
Roche	306	9.37	0.18	2.0	9.4	5.4	95.0
Sekisui Medical	214	9.51	0.16	1.7	9.5	8.5	10.3
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	105	9.50	0.24	2.6	9.4	7.2	10.2
Shino-Test Corporation	92	9.64	0.23	2.4	9.7	8.6	11.9
Siemens Healthineers	41	9.60	0.12	1.2	9.6	9.4	9.9
SNIBE Co.,Ltd	1				9.1		
Stanbio	11	9.03	0.39	4.3	8.9	8.5	9.7
Thermo Fisher Scientific	6				9.3	9.0	10.0
Wako	144	9.53	0.18	1.9	9.5	8.7	15.5
Uricase (Dry chemistry)	10	9.16	0.21	2.3	9.2	8.9	9.5
Ortho Clinical Diagnostics	10	9.16	0.21	2.3	9.2	8.9	9.5

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1481	3.31	0.11	3.3	3.3	2.0	15.0
Other Method	11	3.24	0.12	3.7	3.2	3.0	3.4
주식회사 한랩	1				3.2		
Beckman Coulter Inc.	1				3.3		
Others	9				3.2	3.0	3.4
Uricase	1460	3.32	0.11	3.3	3.3	2.0	15.0
신양화학	3				3.3	3.3	3.3
아산제약(주)	14	3.39	0.16	4.8	3.4	3.2	3.8
(주)아이비디랩	7				3.4	3.2	3.5
(주)제이앤티 바이오(구 (주)젠바디)	4				3.6	3.4	3.8
(주)지디엘코리아	31	3.39	0.16	4.7	3.4	2.3	4.1
(주)티씨엠생명과학	8				3.6	3.0	4.0
Abbott	16	3.30	0.00	0.0	3.3	3.3	3.3

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Beckman Coulter Inc.	217	3.40	0.07	2.0	3.4	3.0	3.9
Bion	42	3.30	0.20	6.1	3.3	2.8	3.8
Biosystems	84	3.28	0.14	4.4	3.3	2.3	4.1
Chema Diagnostica	2					3.2	3.3
Diasys	14	3.34	0.08	2.3	3.4	3.2	3.4
Elitechgroup	6				2.8	2.7	3.5
Erba diagnostics	3				4.3	3.6	4.5
Genematrix(구 진매트릭스바이오)	1				3.3		
JW바이오사이언스(주)(구 JW중외메디칼)	32	3.33	0.10	3.0	3.3	3.0	3.5
LC Diagnostics	3				3.5	3.4	4.0
PZ Cormay	52	3.38	0.24	7.0	3.4	2.8	3.9
Randox	1				3.3		
Roche	306	3.27	0.08	2.5	3.3	2.0	15.0
Sekisui Medical	214	3.33	0.07	2.2	3.3	2.8	3.7
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	105	3.27	0.12	3.7	3.3	2.8	4.0
Shino-Test Corporation	92	3.32	0.10	3.0	3.3	3.0	4.1
Siemens Healthineers	41	3.42	0.05	1.4	3.4	3.3	3.5
SNIBE Co.,Ltd	1				3.4		
Stanbio	11	3.29	0.23	7.0	3.3	2.9	3.6
Thermo Fisher Scientific	6				3.4	3.2	4.1
Wako	144	3.29	0.08	2.4	3.3	3.0	5.3
Uricase (Dry chemistry)	10	3.17	0.11	3.3	3.2	3.0	3.3
Ortho Clinical Diagnostics	10	3.17	0.11	3.3	3.2	3.0	3.3

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	N	Mean	SD	CV(%)	Median	Min	Max
All	1481	5.64	0.16	2.9	5.6	3.2	10.0
Other Method	11	5.41	0.25	4.6	5.4	5.0	5.9



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주식회사 한랩	1				5.4		
Beckman Coulter Inc.	1				5.6		
Others	9				5.4	5.0	5.9
Uricase	1460	5.64	0.16	2.9	5.6	3.2	10.0
신양화학	3				5.6	5.5	5.7
아산제약(주)	14	5.65	0.08	1.4	5.7	5.1	5.8
(주)아이비디랩	7				5.6	5.5	5.9
(주)제이앤티 바이오(구 (주)젠바디)	4				5.8	5.5	5.9
(주)지디엘코리아	31	5.70	0.22	3.9	5.7	4.6	6.2
(주)티씨엠생명과학	8				5.7	4.9	6.0
Abbott	16	5.63	0.05	0.8	5.6	5.6	5.8
Beckman Coulter Inc.	217	5.74	0.10	1.8	5.7	5.4	6.3
Bion	42	5.60	0.26	4.6	5.6	4.8	6.3
Biosystems	84	5.48	0.21	3.7	5.5	3.4	8.3
Chema Diagnostica	2					5.3	5.7
Diasys	14	5.71	0.14	2.4	5.7	5.5	5.9
Elitechgroup	6				5.2	5.0	5.5
Erba diagnostics	3				6.5	5.4	6.8
Genematrix(구 진매트릭스바이오)	1				5.6		
JW바이오사이언스(주)(구 JW중외메디칼)	32	5.57	0.18	3.2	5.6	5.1	5.9
LC Diagnostics	3				5.9	5.6	6.1
PZ Cormay	52	5.60	0.24	4.4	5.6	5.1	6.3
Randox	1				5.7		
Roche	306	5.59	0.12	2.2	5.6	3.2	6.1
Sekisui Medical	214	5.66	0.10	1.8	5.7	5.1	6.2
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	105	5.60	0.18	3.2	5.6	5.1	7.3
Shino-Test Corporation	92	5.71	0.16	2.8	5.7	5.1	6.9
Siemens Healthineers	41	5.78	0.07	1.2	5.8	5.7	5.9
SNIBE Co.,Ltd	1				5.4		
Stanbio	11	5.43	0.17	3.2	5.4	5.2	5.8

Thermo Fisher Scientific	6				5.7	5.3	6.0
Wako	144	5.64	0.13	2.3	5.6	5.2	10.0
Uricase (Dry chemistry)	10	5.35	0.13	2.4	5.4	5.2	5.5
Ortho Clinical Diagnostics	10	5.35	0.13	2.4	5.4	5.2	5.5



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