



## Therapeutic Drugs

Name	Line No.	Specimen 1			Specimen 2			Specimen 3			Specimen 4			Specimen 5			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	
<b>Acetaminophen</b>																	
<b>Initial Grouping by Reagent and Instrument</b>																	
Beckman Olympus & Beck Olym AU 400/600/5400	1	58 - 96	P 76.8	1.9	15 - 25	P 20.0	0.0	25 - 42	P 33.8	0.8	50 - 83	P 66.3	0.4	72 - 120	P 96.0	2.9	4
Beckman Synch LX, UniCel DxC & Beck Coulter Unicel DxC	2	71 - 118	P 94.0	3.1	16 - 27	P 21.8	0.4	27 - 45	P 36.0	1.2	60 - 100	P 79.8	2.6	91 - 152	P 121.8	2.8	4
Ortho Vitros & Ortho Vitros 3600, 5600	3	75 - 125	P 100.0	0.9	18 - 30	P 24.0	0.0	31 - 52	P 41.5	0.6	65 - 109	P 87.0	0.9	94 - 157	P 125.4	1.5	12
Ortho Vitros & Ortho Vitros not DT or ECI	4	75 - 124	P 99.5	1.1	18 - 30	P 24.0	0.0	31 - 52	P 41.3	0.4	65 - 109	P 87.0	1.0	93 - 155	P 124.0	1.0	4
Siemens Dimension Flex & Siemens Dimension EXL	5	66 - 109	P 87.4	1.6	23 - 38	P 30.2	1.0	31 - 52	P 41.8	0.8	57 - 95	P 76.1	1.4	83 - 137	P 110.0	1.6	36
<b>Initial Grouping by Reagent</b>																	
Beckman Olympus	6	57 - 95	P 76.2	2.9	14 - 24	P 19.3	0.9	25 - 42	P 33.3	1.2	49 - 81	P 64.7	3.0	71 - 118	P 94.2	4.7	6
Beckman Synch LX, UniCel DxC	7	71 - 118	P 94.0	3.1	16 - 27	P 21.8	0.4	27 - 45	P 36.0	1.2	60 - 100	P 79.8	2.6	91 - 152	P 121.8	2.8	4
Ortho Vitros	8	75 - 125	P 99.9	1.0	18 - 30	P 24.0	0.0	31 - 52	P 41.4	0.6	65 - 109	P 87.0	0.9	94 - 156	P 125.1	1.5	16
Siemens Dimension Flex	9	65 - 109	P 87.3	1.7	23 - 38	P 30.3	1.1	31 - 52	P 41.9	1.0	57 - 95	P 76.0	1.4	82 - 137	P 109.9	1.7	41
<b>Initial Grouping by Sensitivity or Principle</b>																	
Other spectrophotometric	10	72 - 120	P 96.1	8.2	17 - 29	P 23.1	2.0	30 - 50	P 40.0	3.4	62 - 104	P 83.3	8.2	91 - 152	P 121.4	8.3	20
Enzyme-multiplied IA/EMIT	11	64 - 107	P 85.8	4.2	22 - 36	P 28.9	3.8	31 - 51	P 40.8	3.0	56 - 93	P 74.5	4.1	81 - 135	P 107.8	5.8	47
Turbidimetric/PETINIA	12	71 - 118	P 94.0	3.1	16 - 27	P 21.8	0.4	27 - 45	P 36.0	1.2	60 - 100	P 79.8	2.6	91 - 152	P 121.8	2.8	4
<b>Total Population</b>																	
Whole Population	13	67 - 111	P 88.8	7.7	20 - 33	P 26.7	4.5	30 - 50	P 40.1	3.4	58 - 96	P 76.9	7.1	84 - 140	P 111.8	9.8	73

**Carbamazepine**

<b>Initial Grouping by Reagent and Instrument</b>																	
Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	6.9 - 11.5	P 9.19	0.77	2.9 - 4.8	P 3.86	0.4	3.7 - 6.2	P 4.94	0.47	6.1 - 10.1	P 8.09	0.73	8.2 - 13.7	P 10.94	0.53	7
Beckman Olympus & Beck Olym AU 400/600/5400	2	7.8 - 13.0	P 10.42	0.31	3.5 - 5.8	P 4.62	0.17	4.5 - 7.6	P 6.04	0.39	7.0 - 11.6	P 9.3	0.37	9.8 - 16.3	P 13.04	1.15	5
Ortho Vitros & Ortho Vitros 3600, 5600	3	6.6 - 11.0	P 8.8	0.41	2.4 - 4.1	P 3.24	0.1	3.4 - 5.6	P 4.48	0.12	5.7 - 9.6	P 7.66	0.32	8.3 - 13.8	P 11.04	0.45	5
Siemens Dimension Flex & Siemens Dimension EXL	4	7.7 - 12.9	P 10.3	0.49	3.2 - 5.3	P 4.25	0.2	4.1 - 6.8	P 5.48	0.31	6.8 - 11.4	P 9.13	0.42	9.5 - 15.8	P 12.63	0.52	12
<b>Initial Grouping by Reagent</b>																	
Abbott Aeroset/Architect	5	6.9 - 11.5	P 9.19	0.77	2.9 - 4.8	P 3.86	0.4	3.7 - 6.2	P 4.94	0.47	6.1 - 10.1	P 8.09	0.73	8.2 - 13.7	P 10.94	0.53	7
Beckman Olympus	6	7.9 - 13.2	P 10.53	0.38	3.5 - 5.8	P 4.62	0.16	4.5 - 7.5	P 6.02	0.36	7.0 - 11.7	P 9.33	0.35	9.8 - 16.3	P 13.02	1.05	6
Ortho Vitros	7	6.6 - 11.0	P 8.8	0.41	2.4 - 4.1	P 3.24	0.1	3.4 - 5.6	P 4.48	0.12	5.7 - 9.6	P 7.66	0.32	8.3 - 13.8	P 11.04	0.45	5
Roche Cobas	8	8.1 - 13.6	P 10.84	0.62	3.2 - 5.4	P 4.28	0.12	4.1 - 6.8	P 5.44	0.1	7.1 - 11.8	P 9.44	0.34	9.9 - 16.4	P 13.14	0.48	5
Siemens Dimension Flex	9	7.7 - 12.9	P 10.31	0.43	3.2 - 5.3	P 4.26	0.2	4.1 - 6.9	P 5.5	0.3	6.8 - 11.4	P 9.13	0.38	9.5 - 15.8	P 12.63	0.5	16
<b>Initial Grouping by Sensitivity or Principle</b>																	
Enzyme-multiplied IA/EMIT	10	7.7 - 12.8	P 10.24	0.74	3.2 - 5.4	P 4.32	0.3	4.2 - 7.0	P 5.57	0.5	6.8 - 11.4	P 9.09	0.57	9.5 - 15.9	P 12.73	0.72	23
Turbidimetric/PETINIA	11	7.6 - 12.7	P 10.18	0.4	3.2 - 5.3	P 4.26	0.3	4.1 - 6.8	P 5.42	0.37	6.6 - 11.1	P 8.86	0.22	9.3 - 15.5	P 12.38	0.64	5
Luminometric/CLIA	12	7.4 - 12.4	P 9.9	0.25	3.3 - 5.5	P 4.4	0.51	4.1 - 6.9	P 5.5	0.64	6.7 - 11.2	P 8.95	0.36	8.9 - 14.8	P 11.8	0.76	4
<b>Total Population</b>																	
Whole Population	13	7.5 - 12.5	P 9.96	0.87	3.1 - 5.2	P 4.15	0.46	4.0 - 6.7	P 5.35	0.57	6.6 - 11.0	P 8.82	0.74	9.2 - 15.3	P 12.23	1.0	50

**Digoxin**

<b>Initial Grouping by Reagent and Instrument</b>																	
Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	1.3 - 1.9	P 1.57	0.14	0.4 - 0.8	C 0.62	0.07	0.6 - 1.1	C 0.85	0.05	1.1 - 1.7	P 1.38	0.09	1.6 - 2.4	P 2.02	0.17	6
Beckman Olympus & Beck Olym AU 400/600/5400	2	1.4 - 2.2	P 1.81	0.1	0.6 - 1.0	C 0.77	0.09	0.8 - 1.2	C 0.97	0.09	1.3 - 2.0	P 1.63	0.14	1.8 - 2.7	P 2.23	0.13	7
Beckman Synch LX, UniCel DxC & Beck Coulter Unicel DxC	3	1.4 - 2.1	P 1.72	0.1	0.5 - 0.9	C 0.72	0.15	0.7 - 1.1	C 0.92	0.04	1.2 - 1.8	P 1.54	0.05	1.7 - 2.6	P 2.16	0.05	5
Ortho Vitros & Ortho Vitros 3600, 5600	4	1.2 - 1.7	P 1.45	0.11	0.6 - 1.0	C 0.79	0.16	0.8 - 1.2	C 0.95	0.12	1.0 - 1.6	P 1.3	0.13	1.4 - 2.2	P 1.81	0.14	12
Siemens Dimension Flex & Siemens Dimension EXL	5	1.4 - 2.2	P 1.81	0.09	0.6 - 1.0	C 0.8	0.07	0.8 - 1.2	P 1.02	0.09	1.3 - 2.0	P 1.64	0.08	1.8 - 2.7	P 2.26	0.07	34
Siemens Dimension Flex & Siemens Dimension Xpand	6	1.5 - 2.2	P 1.82	0.04	0.6 - 1.0	C 0.77	0.05	0.8 - 1.2	C 0.98	0.07	1.3 - 1.9	P 1.62	0.07	1.8 - 2.7	P 2.27	0.05	6
<b>Initial Grouping by Reagent</b>																	

Abbott Aeroset/Architect	7	1.3 - 1.9	P 1.57	0.14	0.4 - 0.8	C 0.62	0.07	0.6 - 1.1	C 0.85	0.05	1.1 - 1.7	P 1.38	0.09	1.6 - 2.4	P 2.02	0.17	6
Beckman Coulter Access	8	1.6 - 2.4	P 2.0	0.12	0.7 - 1.1	C 0.9	0.0	0.9 - 1.4	P 1.13	0.04	1.4 - 2.2	P 1.8	0.12	1.9 - 2.8	P 2.35	0.15	4
Beckman Olympus	9	1.4 - 2.2	P 1.8	0.09	0.6 - 1.0	C 0.79	0.09	0.8 - 1.2	C 0.97	0.08	1.3 - 1.9	P 1.59	0.14	1.7 - 2.6	P 2.17	0.16	9
Beckman Synch LX,UniCel DxC	10	1.4 - 2.1	P 1.72	0.1	0.5 - 0.9	C 0.72	0.15	0.7 - 1.1	C 0.92	0.04	1.2 - 1.8	P 1.54	0.05	1.7 - 2.6	P 2.16	0.05	5
Ortho Vitros	11	1.2 - 1.7	P 1.45	0.13	0.6 - 1.0	C 0.8	0.15	0.7 - 1.1	C 0.93	0.12	1.0 - 1.6	P 1.3	0.12	1.4 - 2.1	P 1.78	0.14	15
Roche Cobas TDM-OnLine/KIMS	12	1.4 - 2.1	P 1.76	0.08	0.7 - 1.1	C 0.9	0.06	0.8 - 1.2	P 1.04	0.05	1.2 - 1.8	P 1.48	0.1	1.6 - 2.4	P 2.0	0.11	5
Siemens Dimension Flex	13	1.4 - 2.2	P 1.81	0.09	0.6 - 1.0	C 0.8	0.07	0.8 - 1.2	P 1.01	0.09	1.3 - 2.0	P 1.63	0.08	1.8 - 2.7	P 2.26	0.07	43
Siemens Immulite	14	1.6 - 2.4	P 1.97	0.09	0.7 - 1.1	C 0.9	0.07	0.9 - 1.4	P 1.15	0.05	1.4 - 2.2	P 1.8	0.12	2.0 - 3.0	P 2.48	0.24	4
<b>Initial Grouping bySensitivityor Principle</b>																	
Other spectrophotometric	15	1.4 - 2.0	P 1.7	0.19	0.6 - 1.0	C 0.78	0.11	0.8 - 1.2	C 0.98	0.11	1.2 - 1.8	P 1.53	0.18	1.7 - 2.6	P 2.13	0.23	64
Luminometric/CLIA	16	1.6 - 2.4	P 2.0	0.14	0.7 - 1.1	C 0.9	0.08	0.9 - 1.3	P 1.12	0.07	1.4 - 2.2	P 1.81	0.12	2.0 - 2.9	P 2.44	0.22	13
Enzyme-multiplied IA/EMIT	17	1.4 - 2.2	P 1.8	0.09	0.6 - 1.0	C 0.79	0.08	0.8 - 1.2	C 0.97	0.08	1.3 - 1.9	P 1.59	0.14	1.7 - 2.6	P 2.17	0.16	10
Turbidimetric/PETINIA	18	1.4 - 2.1	P 1.75	0.09	0.6 - 1.0	C 0.82	0.13	0.8 - 1.2	C 0.99	0.07	1.2 - 1.8	P 1.52	0.09	1.7 - 2.5	P 2.08	0.15	13
<b>Total Population</b>																	
Whole Population	19	1.4 - 2.1	P 1.76	0.19	0.6 - 1.0	C 0.8	0.11	0.8 - 1.2	C 1.0	0.11	1.3 - 1.9	P 1.57	0.18	1.7 - 2.6	P 2.17	0.24	100

## Gentamicin

<b>Initial Grouping byReagent and Instrument</b>																	
Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	4.7 - 7.8	P 6.23	0.22	1.2 - 2.1	P 1.65	0.05	1.9 - 3.2	P 2.55	0.11	3.9 - 6.5	P 5.18	0.29	5.9 - 9.8	P 7.88	0.54	4
Beckman Olympus & Beck Olym AU 400/600/5400	2	5.0 - 8.3	P 6.63	0.57	1.4 - 2.4	P 1.9	0.27	2.0 - 3.4	P 2.73	0.31	4.5 - 7.5	P 6.03	0.87	6.8 - 11.3	P 9.03	0.74	4
Ortho Vitros & Ortho Vitros 3600, 5600	3	5.1 - 8.6	P 6.86	0.19	1.4 - 2.4	P 1.93	0.04	2.2 - 3.7	P 2.95	0.07	4.5 - 7.5	P 5.96	0.17	6.6 - 11.0	P 8.78	0.31	8
Siemens Dimension Flex & Siemens Dimension EXL	4	4.6 - 7.6	P 6.07	0.3	1.3 - 2.1	P 1.69	0.12	2.0 - 3.3	P 2.65	0.09	4.0 - 6.7	P 5.33	0.19	6.0 - 10.0	P 8.02	0.26	12
<b>Initial Grouping byReagent</b>																	
Abbott Aeroset/Architect	5	4.7 - 7.8	P 6.23	0.22	1.2 - 2.1	P 1.65	0.05	1.9 - 3.2	P 2.55	0.11	3.9 - 6.5	P 5.18	0.29	5.9 - 9.8	P 7.88	0.54	4
Beckman Olympus	6	5.0 - 8.4	P 6.68	0.43	1.4 - 2.3	P 1.87	0.22	2.1 - 3.5	P 2.82	0.24	4.4 - 7.4	P 5.93	0.63	6.6 - 11.0	P 8.8	0.58	7
Ortho Vitros	7	5.1 - 8.6	P 6.86	0.19	1.4 - 2.4	P 1.93	0.04	2.2 - 3.7	P 2.95	0.07	4.5 - 7.5	P 5.96	0.17	6.6 - 11.0	P 8.78	0.31	8
Siemens Dimension Flex	8	4.5 - 7.5	P 6.04	0.3	1.2 - 2.1	P 1.66	0.14	2.0 - 3.3	P 2.61	0.12	4.0 - 6.6	P 5.3	0.2	6.0 - 10.0	P 7.96	0.29	14
<b>Initial Grouping bySensitivityor Principle</b>																	
Other spectrophotometric	9	5.0 - 8.3	P 6.65	0.36	1.4 - 2.3	P 1.83	0.14	2.1 - 3.5	P 2.82	0.21	4.3 - 7.1	P 5.7	0.43	6.4 - 10.6	P 8.48	0.58	12
Enzyme-multiplied IA/EMIT	10	4.7 - 7.8	P 6.23	0.46	1.3 - 2.2	P 1.73	0.2	2.0 - 3.3	P 2.68	0.19	4.1 - 6.9	P 5.49	0.48	6.2 - 10.3	P 8.22	0.55	21
Turbidimetric/PETINIA	11	5.3 - 8.8	P 7.0	0.45	1.4 - 2.4	P 1.93	0.19	2.3 - 3.8	P 3.0	0.19	4.6 - 7.6	P 6.1	0.42	6.8 - 11.4	P 9.1	0.66	4
<b>Total Population</b>																	
Whole Population	12	4.8 - 8.1	P 6.46	0.51	1.3 - 2.2	P 1.78	0.19	2.1 - 3.4	P 2.76	0.22	4.2 - 7.0	P 5.63	0.5	6.3 - 10.5	P 8.4	0.64	37

## Lithium

<b>Initial Grouping byReagent and Instrument</b>																	
Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	1.2 - 1.8	P 1.53	0.04	0.3 - 0.9	C 0.57	0.04	0.5 - 1.1	C 0.78	0.04	1.1 - 1.7	C 1.35	0.05	1.5 - 2.3	P 1.88	0.04	4
Siemens Dimension Flex & Siemens Dimension EXL	2	1.4 - 2.1	P 1.71	0.06	0.2 - 0.8	C 0.53	0.05	0.5 - 1.1	C 0.8	0.05	1.2 - 1.8	P 1.5	0.08	1.7 - 2.6	P 2.16	0.09	7
<b>Initial Grouping byReagent</b>																	
Abbott Aeroset/Architect	3	1.2 - 1.8	P 1.53	0.04	0.3 - 0.9	C 0.57	0.04	0.5 - 1.1	C 0.78	0.04	1.1 - 1.7	C 1.35	0.05	1.5 - 2.3	P 1.88	0.04	4
Beckman Olympus	4	1.2 - 1.8	P 1.5	0.07	0.3 - 0.9	C 0.55	0.05	0.5 - 1.1	C 0.75	0.05	1.1 - 1.7	C 1.35	0.05	1.5 - 2.3	P 1.9	0.07	4
Siemens Dimension Flex	5	1.4 - 2.0	P 1.69	0.07	0.2 - 0.8	C 0.53	0.04	0.5 - 1.1	C 0.79	0.05	1.2 - 1.8	C 1.48	0.07	1.7 - 2.6	P 2.14	0.1	11
<b>Initial Grouping bySensitivityor Principle</b>																	
All other methods	6	1.2 - 1.8	P 1.53	0.04	0.3 - 0.9	C 0.57	0.04	0.5 - 1.1	C 0.78	0.04	1.1 - 1.7	C 1.35	0.05	1.5 - 2.3	P 1.88	0.04	4
Other, not flame equivalent	7	1.2 - 1.8	C 1.46	0.14	0.2 - 0.8	C 0.52	0.09	0.4 - 1.0	C 0.71	0.08	1.0 - 1.6	C 1.3	0.12	1.5 - 2.2	P 1.84	0.23	11
Flame-equivalent methods	8	1.3 - 2.0	P 1.67	0.08	0.2 - 0.8	C 0.54	0.06	0.5 - 1.1	C 0.79	0.05	1.2 - 1.8	C 1.47	0.08	1.7 - 2.5	P 2.12	0.11	12
<b>Total Population</b>																	
Whole Population	9	1.3 - 1.9	P 1.57	0.15	0.2 - 0.8	C 0.54	0.08	0.5 - 1.1	C 0.76	0.07	1.1 - 1.7	C 1.38	0.12	1.6 - 2.4	P 1.97	0.21	27

## Phenobarbital

<b>Initial Grouping byReagent and Instrument</b>																	
Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	21 - 32	P 26.8	2.7	7 - 11	C 8.5	1.1	10 - 15	P 12.3	1.3	19 - 29	P 23.8	2.9	28 - 41	P 34.5	3.5	4
Beckman Olympus & Beck Olym AU 400/600/5400	2	22 - 33	P 27.8	1.3	7 - 11	C 9.0	0.0	10 - 15	P 12.8	0.4	19 - 29	P 24.3	1.8	28 - 41	P 34.5	1.1	4
Siemens Dimension Flex & Siemens Dimension EXL	3	23 - 35	P 28.9	0.9	7 - 11	C 9.2	0.6	10 - 16	P 13.0	0.8	20 - 29	P 24.5	1.4	29 - 43	P 35.8	1.8	10
<b>Initial Grouping byReagent</b>																	
Abbott Aeroset/Architect	4	21 - 32	P 26.8	2.7	7 - 11	C 8.5	1.1	10 - 15	P 12.3	1.3	19 - 29	P 23.8	2.9	28 - 41	P 34.5	3.5	4
Beckman Olympus	5	22 - 33	P 27.5	1.6	7 - 11	C 8.8	0.4	10 - 15	P 12.7	0.5	19 - 29	P 23.8	2.0	27 - 41	P 33.8	1.6	6
Roche Cobas	6	21 - 32	P 26.3	0.8	7 - 11	C 8.5	0.5	10 - 15	P 12.3	0.4	18 - 28	P 23.0	0.7	27 - 40	P 33.3	0.8	4
Siemens Dimension Flex	7	23 - 35	P 28.9	0.9	7 - 11	C 9.1	0.6	10 - 16	P 13.0	0.7	20 - 29	P 24.5	1.3	29 - 43	P 35.8	1.6	12
<b>Initial Grouping bySensitivityor Principle</b>																	
Other spectrophotometric	8	21 - 32	P 26.5	2.0	7 - 11	C 8.5	0.9	10 - 15	P 12.3	1.0	19 - 28	P 23.4	2.2	27 - 41	P 33.9	2.6	8

Enzyme-multiplied IA/EMIT	9	23 - 34	P 28.3	1.4	7 - 11	C 9.0	0.6	10 - 15	P 12.8	0.7	19 - 29	P 24.1	1.6	28 - 42	P 35.0	1.8	21
Turbidimetric/PETINIA	10	22 - 32	P 27.0	1.2	7 - 11	C 9.3	0.4	10 - 16	P 13.0	0.7	19 - 28	P 23.3	1.1	27 - 41	P 33.8	1.9	4
<b>Total Population</b>																	
Whole Population	11	22 - 33	P 27.6	1.7	7 - 11	C 8.9	0.7	10 - 15	P 12.7	0.8	19 - 29	P 23.8	1.7	28 - 41	P 34.5	2.1	35

## Phenytoin

### Initial Grouping by Reagent and Instrument

Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	16 - 26	P 21.2	1.1	7 - 12	P 9.3	0.5	9 - 15	P 11.7	0.5	14 - 23	P 18.7	1.2	20 - 33	P 26.3	1.9	6
Beckman Olympus & Beck Olym AU 400/600/5400	2	15 - 25	P 20.2	0.7	7 - 11	P 8.7	0.9	9 - 15	P 12.0	1.1	14 - 23	P 18.0	0.9	19 - 32	P 25.4	1.5	6
Beckman Synch LX, UniCel DxC & Beck Coulter Unicel DXC	3	16 - 26	P 20.8	0.8	7 - 12	P 9.3	0.4	9 - 15	P 11.8	0.4	14 - 24	P 19.3	1.1	20 - 33	P 26.3	0.8	4
Ortho Vitros & Ortho Vitros 3600, 5600	4	18 - 30	P 24.3	1.6	7 - 12	P 9.4	0.7	9 - 16	P 12.6	0.8	16 - 26	P 21.1	1.2	22 - 37	P 29.6	2.3	9
Roche Cobas & Roche Cobas 6000, 8000	5	16 - 26	P 20.7	1.5	7 - 11	P 9.0	0.6	9 - 15	P 11.7	0.5	14 - 23	P 18.7	0.9	19 - 32	P 25.3	1.1	6
Siemens Dimension Flex & Siemens Dimension EXL	6	18 - 30	P 24.0	1.0	7 - 11	P 8.9	0.6	9 - 15	P 12.0	0.5	16 - 26	P 20.9	1.1	22 - 36	P 28.8	1.0	23

### Initial Grouping by Reagent

Abbott Aeroset/Architect	7	16 - 26	P 21.2	1.1	7 - 12	P 9.3	0.5	9 - 15	P 11.7	0.5	14 - 23	P 18.7	1.2	20 - 33	P 26.3	1.9	6
Beckman Olympus	8	16 - 26	P 20.9	1.4	7 - 11	P 8.7	0.8	9 - 15	P 11.9	1.1	14 - 23	P 18.1	0.8	19 - 32	P 25.3	1.8	9
Beckman Synch LX, UniCel DxC	9	15 - 25	P 20.2	1.3	7 - 11	P 9.0	0.6	9 - 15	P 11.8	0.4	14 - 24	P 18.8	1.3	19 - 32	P 25.8	1.2	5
Ortho Vitros	10	18 - 30	P 24.2	1.6	7 - 12	P 9.2	0.8	9 - 16	P 12.5	0.8	16 - 26	P 20.9	1.3	22 - 37	P 29.4	2.2	10
Roche Cobas	11	16 - 26	P 20.9	1.7	7 - 12	P 9.2	0.9	9 - 15	P 11.7	0.5	14 - 23	P 18.8	1.1	19 - 31	P 25.1	1.1	9
Siemens Dimension Flex	12	18 - 30	P 23.9	1.1	7 - 11	P 8.9	0.7	9 - 15	P 12.0	0.6	16 - 26	P 20.7	1.1	22 - 36	P 28.7	1.1	28
Siemens Petinia	13	18 - 30	P 23.8	1.5	7 - 12	P 9.8	0.8	10 - 16	P 12.8	0.4	16 - 26	P 21.0	1.0	22 - 37	P 29.3	1.3	4

### Initial Grouping by Sensitivity or Principle

Other spectrophotometric	14	17 - 28	P 22.3	2.2	7 - 12	P 9.3	0.8	9 - 15	P 12.0	0.7	15 - 25	P 19.6	1.6	20 - 34	P 27.1	2.6	25
Enzyme-multiplied IA/EMIT	15	17 - 29	P 23.2	1.7	7 - 11	P 8.9	0.7	9 - 15	P 12.0	0.7	15 - 25	P 20.1	1.5	21 - 35	P 27.9	1.9	37
Turbidimetric/PETINIA	16	16 - 27	P 21.8	2.2	7 - 12	P 9.3	0.8	9 - 15	P 12.3	0.7	15 - 25	P 19.8	1.6	20 - 34	P 27.3	2.1	9
Luminometric/CLIA	17	18 - 30	P 23.8	2.8	7 - 12	P 9.4	1.6	9 - 16	P 12.6	0.8	16 - 27	P 21.2	1.9	22 - 37	P 29.8	2.7	5

### Total Population

Whole Population	18	17 - 28	P 22.8	2.1	7 - 11	P 9.1	0.9	9 - 15	P 12.0	0.8	15 - 25	P 20.0	1.6	21 - 35	P 27.7	2.4	77
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## Salicylates - mg/dL

### Initial Grouping by Reagent and Instrument

Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	17.2 - 28.7	P 22.98	1.09	6.0 - 9.9	P 7.95	0.51	8.2 - 13.7	P 10.95	0.6	15.8 - 26.3	P 21.03	0.29	22.4 - 37.3	P 29.85	0.71	4
Ortho Vitros & Ortho Vitros 3600, 5600	2	16.9 - 28.1	P 22.51	0.55	7.6 - 12.7	P 10.17	0.18	10.0 - 16.6	P 13.27	0.3	15.2 - 25.3	P 20.2	0.33	20.1 - 33.5	P 26.81	0.66	10
Ortho Vitros & Ortho Vitros not DT or ECI	3	17.0 - 28.3	P 22.6	0.42	7.5 - 12.6	P 10.05	0.09	9.8 - 16.3	P 13.03	0.04	15.2 - 25.3	P 20.27	0.42	20.2 - 33.6	P 26.9	0.17	4
Siemens Dimension Flex & Siemens Dimension EXL	4	15.9 - 26.5	P 21.24	0.51	6.9 - 11.6	P 9.26	0.22	8.8 - 14.7	P 11.72	0.2	14.3 - 23.8	P 19.03	0.42	19.6 - 32.7	P 26.16	0.71	30

### Initial Grouping by Reagent

Abbott Aeroset/Architect	5	17.2 - 28.7	P 22.98	1.09	6.0 - 9.9	P 7.95	0.51	8.2 - 13.7	P 10.95	0.6	15.8 - 26.3	P 21.03	0.29	22.4 - 37.3	P 29.85	0.71	4
Beckman Olympus	6	18.1 - 30.1	P 24.1	1.16	7.1 - 11.9	P 9.53	0.55	9.5 - 15.8	P 12.65	0.68	16.1 - 26.8	P 21.43	0.87	22.5 - 37.5	P 30.0	1.48	4
Ortho Vitros	7	16.9 - 28.2	P 22.54	0.52	7.6 - 12.7	P 10.14	0.17	9.9 - 16.5	P 13.2	0.28	15.2 - 25.3	P 20.22	0.36	20.1 - 33.5	P 26.84	0.57	14
Siemens Dimension Flex	8	16.0 - 26.6	P 21.28	0.51	6.9 - 11.6	P 9.25	0.22	8.8 - 14.7	P 11.72	0.18	14.3 - 23.8	P 19.05	0.41	19.7 - 32.8	P 26.23	0.78	34

### Initial Grouping by Sensitivity or Principle

Other spectrophotometric	9	16.3 - 27.2	P 21.76	0.98	7.0 - 11.7	P 9.35	0.64	9.0 - 15.0	P 12.01	0.79	14.6 - 24.4	P 19.48	0.81	20.0 - 33.4	P 26.7	1.39	56
Enzymatic	10	18.1 - 30.1	P 24.1	1.16	7.1 - 11.9	P 9.53	0.55	9.5 - 15.8	P 12.65	0.68	16.1 - 26.8	P 21.43	0.87	22.5 - 37.5	P 30.0	1.48	4

### Total Population

Whole Population	11	16.5 - 27.4	P 21.95	1.14	7.0 - 11.6	P 9.29	0.69	9.0 - 15.0	P 12.02	0.79	14.7 - 24.5	P 19.62	0.92	20.2 - 33.7	P 26.97	1.6	63
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## Theophylline

### Initial Grouping by Reagent and Instrument

Siemens Dimension Flex & Siemens Dimension EXL	1	20 - 33	P 26.3	2.4	9 - 15	P 12.1	0.6	11 - 19	P 15.3	0.8	18 - 29	P 23.5	1.4	24 - 41	P 32.6	1.0	8
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### Initial Grouping by Reagent

Siemens Dimension Flex	2	20 - 33	P 26.2	2.2	9 - 15	P 12.2	0.6	11 - 19	P 15.2	0.8	18 - 30	P 23.8	1.4	24 - 41	P 32.6	1.5	12
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### Initial Grouping by Sensitivity or Principle

All Abbott	3	18 - 31	P 24.5	3.0	9 - 14	P 11.5	1.1	11 - 18	P 14.3	1.3	17 - 28	P 22.0	2.1	23 - 38	P 30.3	4.3	4
Enzyme-multiplied IA/EMIT	4	20 - 33	P 26.8	3.1	9 - 16	P 12.4	0.9	12 - 19	P 15.5	1.4	18 - 30	P 24.1	1.8	25 - 41	P 32.7	3.5	16
Turbidimetric/PETINIA	5	19 - 32	P 25.6	1.0	9 - 15	P 12.0	0.0	11 - 19	P 14.8	0.4	17 - 29	P 23.0	0.6	24 - 40	P 31.8	1.3	5

### Total Population

Whole Population	6	20 - 33	P 26.5	3.8	9 - 15	P 12.1	0.9	11 - 19	P 15.1	1.3	17 - 29	P 23.3	1.9	24 - 40	P 32.1	3.7	29
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## Tobramycin

### Initial Grouping by Sensitivity or Principle

Enzyme-multiplied IA/EMIT	1	5.2 - 8.6	P 6.88	0.94	1.6 - 2.6	P 2.07	0.23	2.4 - 4.0	P 3.17	0.34	4.5 - 7.6	P 6.05	0.95	7.0 - 11.7	P 9.38	0.66	4
<b>Total Population</b>																	
Whole Population	2	5.3 - 8.9	P 7.1	0.86	1.6 - 2.6	P 2.1	0.21	2.4 - 4.0	P 3.16	0.31	4.6 - 7.7	P 6.15	0.8	7.1 - 11.8	P 9.45	0.62	6

### Valproic Acid

<b>Initial Grouping by Reagent and Instrument</b>																	
Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	64 - 107	P 85.3	2.1	34 - 56	P 44.7	1.7	39 - 66	P 52.5	1.9	59 - 98	P 78.3	3.1	77 - 128	P 102.2	3.7	9
Beckman Olympus & Beck Olym AU 400/600/5400	2	64 - 107	P 85.5	4.0	33 - 56	P 44.5	1.8	41 - 68	P 54.0	2.3	58 - 97	P 77.5	0.9	75 - 125	P 100.3	2.9	4
Ortho Vitros & Ortho Vitros 3600, 5600	3	62 - 103	P 82.1	2.5	31 - 52	P 41.2	2.7	37 - 62	P 49.5	2.4	55 - 92	P 73.7	2.3	74 - 124	P 99.0	3.5	10
Roche Cobas & Roche Cobas 6000, 8000	4	62 - 104	P 83.3	2.2	31 - 51	P 41.0	3.5	37 - 62	P 49.8	1.9	55 - 92	P 73.3	5.4	68 - 114	P 91.3	6.5	4
Siemens Dimension Flex & Siemens Dimension EXL	5	58 - 97	P 77.9	2.8	31 - 52	P 41.7	2.0	37 - 61	P 48.9	2.2	53 - 88	P 70.5	2.7	69 - 116	P 92.4	2.3	15
<b>Initial Grouping by Reagent</b>																	
Abbott Aeroset/Architect	6	64 - 107	P 85.3	2.1	34 - 56	P 44.7	1.7	39 - 66	P 52.5	1.9	59 - 98	P 78.3	3.1	77 - 128	P 102.2	3.7	9
Beckman Olympus	7	63 - 106	P 84.5	3.7	33 - 55	P 43.8	2.7	40 - 66	P 53.2	2.4	57 - 95	P 76.2	2.0	74 - 124	P 98.8	3.1	6
Beckman Synch LX, UniCel DxC	8	61 - 102	P 81.3	2.3	30 - 50	P 40.0	1.9	38 - 63	P 50.3	2.0	54 - 90	P 72.3	2.6	72 - 119	P 95.5	3.0	4
Ortho Vitros	9	62 - 103	P 82.1	2.5	31 - 52	P 41.2	2.7	37 - 62	P 49.5	2.4	55 - 92	P 73.7	2.3	74 - 124	P 99.0	3.5	10
Roche Cobas	10	61 - 102	P 81.7	3.8	31 - 52	P 41.7	3.8	37 - 62	P 49.6	2.5	55 - 92	P 73.9	5.4	69 - 116	P 92.6	5.8	7
Siemens Dimension Flex	11	58 - 97	P 77.9	2.7	31 - 52	P 41.6	1.9	37 - 61	P 48.9	2.1	53 - 88	P 70.6	2.5	69 - 116	P 92.5	2.3	17
<b>Initial Grouping by Sensitivity or Principle</b>																	
Other spectrophotometric	12	62 - 104	P 83.0	3.2	32 - 53	P 42.5	3.2	38 - 63	P 50.5	2.7	56 - 94	P 75.3	4.2	74 - 123	P 98.4	5.7	26
Enzyme-multiplied IA/EMIT	13	60 - 100	P 79.7	4.1	32 - 53	P 42.1	2.3	38 - 63	P 50.0	2.8	54 - 90	P 72.0	3.4	71 - 118	P 94.2	3.7	24
Turbidimetric/PETINIA	14	60 - 101	P 80.6	3.8	31 - 52	P 41.8	3.6	38 - 64	P 50.9	2.6	55 - 92	P 73.5	4.0	72 - 119	P 95.4	4.3	8
Luminometric/CLIA	15	60 - 100	P 79.8	4.6	33 - 55	P 44.2	1.8	38 - 64	P 51.0	2.3	56 - 94	P 75.2	3.5	74 - 124	P 99.0	8.8	5
<b>Total Population</b>																	
Whole Population	16	61 - 101	P 81.0	4.1	32 - 53	P 42.4	2.9	38 - 63	P 50.3	2.7	55 - 92	P 73.7	4.1	72 - 121	P 96.4	5.5	65

### Vancomycin

<b>Initial Grouping by Reagent and Instrument</b>																	
Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	28 - 46	P 37.0	1.4	6 - 10	P 8.1	0.6	11 - 18	P 14.3	0.7	24 - 40	P 31.7	1.0	37 - 61	P 49.0	3.2	7
Beckman Olympus & Beck Olym AU 400/600/5400	2	22 - 36	P 29.0	1.3	5 - 9	P 6.8	0.4	8 - 14	P 11.2	0.7	19 - 31	P 24.8	1.5	29 - 49	P 38.8	1.6	6
Ortho Vitros & Ortho Vitros 3600, 5600	3	24 - 40	P 31.8	2.1	5 - 9	P 7.1	0.6	9 - 15	P 11.9	0.9	20 - 33	P 26.7	1.8	31 - 52	P 41.9	2.5	13
Siemens Dimension Flex & Siemens Dimension EXL	4	26 - 43	P 34.4	1.3	6 - 10	P 7.8	0.5	10 - 17	P 13.5	0.6	22 - 37	P 29.6	1.1	34 - 57	P 45.4	1.7	33
<b>Initial Grouping by Reagent</b>																	
Abbott Aeroset/Architect	5	28 - 46	P 37.0	1.4	6 - 10	P 8.1	0.6	11 - 18	P 14.3	0.7	24 - 40	P 31.7	1.0	37 - 61	P 49.0	3.2	7
Beckman Olympus	6	22 - 36	P 29.1	1.2	5 - 9	P 6.9	0.3	8 - 14	P 11.1	0.6	19 - 31	P 24.9	1.4	29 - 49	P 39.3	1.8	7
Ortho Vitros	7	24 - 40	P 31.7	2.0	5 - 9	P 7.3	0.8	9 - 15	P 12.1	0.9	20 - 33	P 26.7	1.7	31 - 52	P 41.6	2.5	15
Roche Cobas	8	25 - 41	P 33.0	1.4	6 - 10	P 8.3	0.4	10 - 17	P 13.8	0.8	22 - 37	P 29.3	1.1	32 - 54	P 43.3	1.8	4
Siemens Dimension Flex	9	26 - 43	P 34.3	1.4	6 - 10	P 7.8	0.5	10 - 17	P 13.5	0.6	22 - 37	P 29.6	1.1	34 - 57	P 45.3	1.7	36
Siemens Petinia	10	27 - 45	P 36.0	1.4	6 - 10	P 8.0	0.6	11 - 18	P 14.2	0.4	22 - 37	P 29.8	1.5	36 - 60	P 47.6	2.7	5
<b>Initial Grouping by Sensitivity or Principle</b>																	
Other spectrophotometric	11	25 - 42	P 33.3	2.9	6 - 10	P 7.7	0.8	10 - 16	P 12.9	1.3	21 - 36	P 28.5	2.6	33 - 55	P 43.8	4.1	26
Enzyme-multiplied IA/EMIT	12	25 - 42	P 33.3	2.4	6 - 10	P 7.6	0.6	10 - 16	P 13.1	1.1	22 - 36	P 28.7	2.1	33 - 55	P 44.1	2.9	44
Turbidimetric/PETINIA	13	27 - 44	P 35.6	3.3	6 - 9	P 7.5	0.9	10 - 16	P 13.0	1.6	22 - 36	P 29.1	2.7	34 - 57	P 45.7	4.0	9
<b>Total Population</b>																	
Whole Population	14	25 - 42	P 33.5	2.9	6 - 9	P 7.6	0.7	10 - 16	P 13.0	1.3	21 - 36	P 28.6	2.4	33 - 55	P 44.0	3.6	81