



Expected Ranges Chart

Blood Gas/ISE Analyzer	pH			pCO <sub>2</sub> mmHg			pO <sub>2</sub> mmHg			Na <sup>+</sup> mmol/L			K <sup>+</sup> mmol/L			Ca <sup>++</sup> mmol/L			Cl <sup>-</sup> mmol/L			Li <sup>+</sup> mmol/L		
	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
Diamond PROLYTE									109	106	- 112	2.00	1.91	- 2.09				77	74	- 81	0.42	0.39	- 0.45	
Diamond SMARTLYTE, GEMLYTE									112	109	- 115	1.94	1.85	- 2.03	2.14	1.98	- 2.30	78	74	- 81	0.42	0.39	- 0.45	
Diamond SMARTLYTE PLUS									116	113	- 119	2.25	2.15	- 2.35	2.22	2.05	- 2.39	80	76	- 84	0.38	0.36	- 0.40	
Erba Mannheim, EC 90									127	123	- 131	2.08	1.99	- 2.17	2.65	2.45	- 2.85	91	87	- 96				
Eschweiler Combiline	7.170	7.142	- 7.199	87.6	81.9	- 93.3	102	91	- 114	118	115	- 122	2.11	2.02	- 2.21	2.31	2.13	- 2.48	81	78	- 85	0.61	0.57	- 0.65
Eschweiler Combisys II	7.173	7.145	- 7.202	82.6	77.2	- 88.0	104	93	- 116	118	115	- 122	2.11	2.02	- 2.21	2.31	2.13	- 2.48	83	79	- 87	0.61	0.57	- 0.65
Eschweiler ECOLYTE									117	114	- 121	2.11	2.02	- 2.21	2.31	2.13	- 2.48	83	79	- 87	0.61	0.57	- 0.65	
Eschweiler ECOSYS II	7.175	7.147	- 7.204	82.6	77.2	- 88.0	104	93	- 116															
Horiba Yumizen E100									116	113	- 119	2.25	2.15	- 2.35	2.22	2.05	- 2.39	80	76	- 84	0.38	0.36	- 0.40	
Medica EasyLyte Na/K, Na/K/Cl, Na/K/Li, Na/K/Cl/Li, Na/K/pH/Ca	7.170	7.141	- 7.198						114	111	- 117	2.08	1.99	- 2.17	2.36	2.18	- 2.54	81	77	- 85	0.40	0.38	- 0.42	
Radiometer ABL 5	7.20	7.17	- 7.23	76.9	71.9	- 81.9	97	86	- 107															
Radiometer ABL 50, 500, 505, 510, 520	7.143	7.115	- 7.172	80.7	75.5	- 85.9	112	100	- 125	118	115	- 122	1.92	1.83	- 2.01	2.09	1.93	- 2.25						
Radiometer ABL 555	7.179	7.151	- 7.208	74.8	69.9	- 79.7	111	99	- 123	118	115	- 122	1.92	1.83	- 2.01	2.09	1.93	- 2.25						
Radiometer ABL 600, 610, 620, EML-100	7.171	7.142	- 7.199	84.3	78.8	- 89.8	103	92	- 115	118	115	- 122	1.92	1.83	- 2.01	2.08	1.92	- 2.24	79	75	- 83			
Radiometer ABL 700	7.171	7.142	- 7.199	84.3	78.8	- 89.8	101	90	- 112															
Roche/AVL 990, 995	7.151	7.122	- 7.179	85.3	79.8	- 90.8	106	95	- 118															
Roche/AVL 9110, 9140	7.171	7.142	- 7.199						113	109	- 116	2.17	2.07	- 2.27	2.07	1.91	- 2.22							
Roche AVL 9120, 9130									112	109	- 115	2.17	2.07	- 2.27				85	81	- 89				
Roche/AVL 9180, 9181									112	109	- 115	1.94	1.85	- 2.03	2.14	1.98	- 2.30	78	74	- 81	0.42	0.39	- 0.45	
Roche/AVL Cobas b 121	7.201	7.172	- 7.230	81.8	76.5	- 87.1	88	78	- 97	114	111	- 118	2.12	2.03	- 2.22	1.99	1.84	- 2.14	87	83	- 91			
Roche/AVL Cobas b 221	7.191	7.162	- 7.220	81.8	76.5	- 87.1	86	76	- 95	119	116	- 123	2.12	2.03	- 2.22	1.99	1.84	- 2.14	87	83	- 91			
Roche/AVL Compact Series	7.151	7.122	- 7.179	85.3	79.8	- 90.8	106	95	- 118															
Siemens/Bayer 248	7.156	7.127	- 7.185	75.9	71.0	- 80.9	91	81	- 101															
Siemens/Bayer 348	7.150	7.121	- 7.179	75.7	70.8	- 80.6	84	75	- 93	112	109	- 115	2.21	2.11	- 2.31	2.10	1.95	- 2.26	88	84	- 92			
Siemens/Bayer 614, 634, 644, 654, 664	7.18	7.15	- 7.21						118	115	- 122	1.96	1.87	- 2.05	2.07	1.83	- 2.13	84	80	- 88	0.43	0.41	- 0.46	
Siemens/Bayer 840, 845, 850, 855, 860, 865	7.212	7.183	- 7.241	73.7	68.9	- 78.5	97	86	- 108	109	106	- 112	1.76	1.68	- 1.84	1.95	1.81	- 2.10	72	69	- 75			
Siemens/Bayer RapidPoint 400, 405	7.190	7.161	- 7.219	87.4	81.8	- 93.1	93	83	- 103	115	112	- 119	1.86	1.78	- 1.94	1.95	1.80	- 2.10	78	75	- 82			



For In Vitro Diagnostic Use  
In Vitro Diagnosticum  
Usage In Vitro  
Para Uso Diagnostico In Vitro  
Utilizar Aparato In Vitro Diagnostico In Vitro  
只供体外诊断使用  
для использования в диагностике in vitro



European Conformity  
CE-Konformitätskennzeichnung  
Conformité aux normes européennes  
Conformidad europea  
Conformidade com as normas europeias  
Europäisch übereinstimmende  
符合歐  
Европейская Адекватность



Temperature Limit  
Temperaturlimit  
Limite de température  
Limite de temperatura  
Temperaturgrenze  
測体温度限制  
Температурные ограничения



Consult Instructions for Use  
Gebrauchsanweisung beachten  
Consulte le notice d'emploi  
Consulte las instrucciones de uso  
Consulte as instruções de utilização  
Bevor Invasionsgerät  
參看說明書使用  
Прочитайте по применению



Lot Number  
Chargen-Nr.  
Número de lot  
Número de lote  
Batch number  
批號  
Номер партии



Use by (YYYY-MM-DD)  
Verwendbar bis (JJJJ-MM-TT)  
Date de péremption (AAAA-MM-LI)  
Usar hasta el (AAAA-MM-DD)  
Utilizar até (AAAA-MM-DD)  
Amendel lei (AAAA-MM-DD)  
效期到(YYYY-MM-DD)  
Использовать для (год.мес.число.раздела)



Manufactured by  
Hergestellt von  
Fabriqué par  
Fabricado por  
Fabricado por  
Fornelista af  
\*\*\*製造  
создаватель



Authorized Representative  
Bevollmächtigter  
Représentant agréé  
Representante autorizado  
Representante autorizado  
Autorisovani predstavnik  
授权的代表  
Санкціонований представник



Catalog Number  
Katalognummer  
Número de catálogo  
Número de catálogo  
Número de catálogo  
Каталог  
產品編號  
Номер статьи





# Mission Control™ Blood Gas and Electrolyte Control - Level 2

**LOT** 2301181-EU  
2025/12

Expected Ranges Chart

Blood Gas/ISE Analyzer	pH			pCO <sub>2</sub> mmHg			pO <sub>2</sub> mmHg			Na <sup>+</sup> mmol/L			K <sup>+</sup> mmol/L			Ca <sup>++</sup> mmol/L			Cl <sup>-</sup> mmol/L			Li <sup>+</sup> mmol/L					
	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max			
Diamond PROLYTE												134	130	138	4.29	4.10	4.48				96	92	100	1.11	1.04	1.18	
Diamond SMARTLYTE, GEMLYTE												135	131	139	4.11	3.93	4.29	1.26	1.17	1.35	98	93	102	0.97	0.91	1.03	
Diamond SMARTLYTE PLUS												138	134	142	4.47	4.27	4.67	1.26	1.17	1.35	99	94	103	0.98	0.92	1.04	
Erba Mannheim, EC 90												151	146	155	4.49	4.29	4.70	1.20	1.11	1.29	112	107	117				
Eschweller Combiline	7.424	7.394	7.453	36.0	33.6	38.3	162	150	173	142	138	147	4.38	4.18	4.58	1.22	1.13	1.31	105	101	110	1.04	0.98	1.11			
Eschweller Combisys II	7.424	7.394	7.453	32.7	30.5	34.8	162	151	174	142	138	147	4.38	4.18	4.58	1.22	1.13	1.31	105	101	110	1.04	0.98	1.11			
Eschweller ECOLYTE												140	136	145	4.38	4.18	4.58	1.22	1.13	1.31	105	101	110	1.04	0.98	1.11	
Eschweller ECOSYS II	7.424	7.394	7.453	32.7	30.5	34.8	162	151	174																		
Horiba Yumizen E100												138	134	142	4.47	4.27	4.67	1.26	1.17	1.35	99	94	103	0.98	0.92	1.04	
Medica EasyLyte Na/K, Na/K/Cl, Na/K/Li, Na/K/Cl/Li, Na/K/pH/Ca	7.433	7.403	7.462							138	134	142	4.10	3.91	4.28	1.28	1.18	1.37				98	94	103	1.18	1.11	1.25
Radiometer ABL 5	7.42	7.39	7.45	40.3	37.7	43.0	136	126	145																		
Radiometer ABL 50, 500, 505, 510, 520	7.415	7.385	7.444	41.0	38.3	43.7	159	148	170	136	132	140	4.12	3.93	4.30	1.12	1.04	1.21									
Radiometer ABL 555	7.412	7.382	7.441	41.4	38.7	44.1	157	146	168	142	138	146	4.12	3.93	4.30	1.16	1.08	1.25									
Radiometer ABL 70, 77	7.417	7.387	7.446	46.6	43.6	49.6	132	123	141	141	136	145	4.22	4.03	4.41	1.13	1.05	1.22	100	96	105						
Radiometer ABL 600, 610, 620, EML-100	7.401	7.371	7.430	45.4	42.4	48.3	136	126	145	140	135	144	4.24	4.05	4.44	1.28	1.19	1.38	99	94	103						
Radiometer ABL 705, 710, 715, 720, 725	7.401	7.371	7.430	47.7	44.6	50.8	131	122	140	137	133	141	4.13	3.95	4.32	1.16	1.08	1.25	102	97	106						
Roche/AVL 990, 995	7.381	7.351	7.410	47.7	44.6	50.8	137	127	146	137	133	141	4.13	3.95	4.32	1.16	1.08	1.25	103	99	108						
Roche/AVL 9110, 9140	7.401	7.371	7.430							136	131	140	4.11	3.92	4.29	1.18	1.09	1.27									
Roche AVL 9120, 9130										138	133	142	4.03	3.85	4.21				109	104	114						
Roche/AVL 9180, 9181										135	131	139	4.11	3.93	4.29	1.26	1.17	1.35	98	93	102	0.97	0.91	1.03			
Roche/AVL Cobas b 121	7.431	7.401	7.460	47.7	44.6	50.8	125	116	134	141	137	146	4.23	4.04	4.42	1.08	1.00	1.17	108	104	113						
Roche/AVL Cobas b 221	7.421	7.391	7.450	47.7	44.6	50.8	124	115	133	141	137	146	4.23	4.04	4.42	1.08	1.00	1.17	108	104	113						
Roche/AVL Compact Series	7.391	7.361	7.420	48.7	45.5	51.9	137	127	146																		
Roche/AVL Cobas Mira ISE										140	135	144	4.16	3.98	4.35				108	103	112						
Siemens/Bayer 248	7.375	7.345	7.404	45.1	42.2	48.0	121	112	129																		
Siemens/Bayer 348	7.414	7.384	7.444	46.7	43.7	49.8	117	109	125	138	134	142	4.28	4.09	4.48	1.24	1.14	1.33	101	96	106						
Siemens/Bayer 614, 634, 644, 654, 664	7.43	7.40	7.46							140	136	145	4.27	4.08	4.46	1.18	1.09	1.27	105	100	110	1.15	1.08	1.22			
Siemens/Bayer 840, 845, 850, 855, 860, 865	7.439	7.410	7.469	43.8	40.9	46.6	137	127	146	133	129	137	4.11	3.93	4.30	1.11	1.03	1.19	98	94	103						
Siemens/Bayer RapidPoint 400, 405	7.425	7.395	7.454	47.7	44.6	50.8	135	125	144	135	131	139	4.13	3.94	4.31	1.16	1.08	1.25	106	101	111						

**IVD**  
For In Vitro Diagnostic Use  
in vitro Diagnostikum  
Usage In Vitro  
Hera los Diagnosticos in Vitro  
Utilizar Aparos En Diagnostico In Vitro  
II in Vitro diagnostisering  
использование в лабораторной диагностике  
для использования в лабораторной диагностике

**CE**  
European Conformity  
CE-Konformitätskennzeichnung  
Conformité aux normes européennes  
Conformidad europea  
Conformidade com as normas europeias  
Europaisk overensstemmelse  
符合歐  
符合歐

**Temperature Limit**  
Temperaturlimit  
Limite de température  
Limite de temperatura  
Limite de temperatura  
Temperaturgrænse  
測温温度限制  
測温温度限制

**Consult Instructions for Use**  
Gebrauchsanweisung beachten  
Consulte la notice d'emploi  
Consulte las instrucciones de uso  
Consulte as instruções de utilização  
Bentil brugsanvisninger  
參閱說明書使用  
參閱說明書使用

**LOT**  
Lot Number  
Charge Nr.  
Número de lot  
Número de lote  
Batchnummer  
批号  
批次号

**Use by (YYYY-MM-DD)**  
Verwendbar bis (JJJJ-MM-TT)  
Date de péremption (AAAA-MM-JJ)  
Usar hasta el (AAAA-MM-DD)  
Utilizar até (AAAA-MM-DD)  
Arvänd för (AAAA-MM-DD)  
有效期(YYYY-MM-DD)  
有效期(YYYY-MM-DD)

**Manufactured by**  
Herstellt von  
Fabriqué par  
Fabricado por  
Fabricado por  
Fremstillet af  
製造  
製造

**EC REP**  
Authorized Representative  
Bevollmächtigter  
Représentant agréé  
Representante autorizado  
Representante autorizado  
Autoriseret repræsentant  
授权代表  
授权代表

**REF**  
Catalog Number  
Katalognummer  
Número de catalogue  
Número de catálogo  
Número de catálogo  
Katalognr.  
产品编号  
产品编号



Expected Ranges Chart

Blood Gas/ISE Analyzer	pH			pCO <sub>2</sub> mmHg			pO <sub>2</sub> mmHg			Na <sup>+</sup> mmol/L			K <sup>+</sup> mmol/L			Ca <sup>++</sup> mmol/L			Cl <sup>-</sup> mmol/L			Li <sup>+</sup> mmol/L		
	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
Diamond PROLYTE										157	152	- 162	6.69	6.39	- 6.99				116	111	- 121	2.51	2.36	- 2.66
Diamond SMARTLYTE, GEMLYTE										157	152	- 161	6.68	6.38	- 6.98	0.54	0.46	- 0.62	118	112	- 123	2.35	2.21	- 2.49
Diamond SMARTLYTE PLUS										158	153	- 162	6.96	6.65	- 7.27	0.53	0.45	- 0.61	118	112	- 123	2.38	2.24	- 2.52
Diamond UNITY										164	159	- 169	7.15	6.83	- 7.47				123	117	- 129			
Erba Mannheim, EC 90										177	171	- 182	7.32	6.99	- 7.65	0.61	0.52	- 0.70	134	128	- 140			
Eschweiler Combiline	7.733	7.703	- 7.764	22.6	21.1	- 24.1	139	131	- 146	162	157	- 167	7.48	7.14	- 7.82	0.45	0.39	- 0.52	119	114	- 125	2.36	2.21	- 2.50
Eschweiler Combisys II	7.733	7.703	- 7.764	22.6	21.1	- 24.1	139	131	- 146	162	157	- 167	7.48	7.14	- 7.82	0.45	0.39	- 0.52	122	117	- 128	2.36	2.21	- 2.50
Eschweiler ECOLYTE										161	156	- 166	7.48	7.14	- 7.82	0.45	0.39	- 0.52	122	117	- 128	2.36	2.21	- 2.50
Eschweiler ECOSYS II	7.733	7.703	- 7.764	22.6	21.1	- 24.1	139	131	- 146															
Horiba Yumizen E100										158	153	- 162	6.96	6.65	- 7.27	0.53	0.45	- 0.61	118	112	- 123	2.38	2.24	- 2.52
IL Ilite	7.748	7.717	- 7.779							166	161	- 171	7.44	7.11	- 7.78	0.80	0.68	- 0.92	124	118	- 130	2.41	2.26	- 2.55
Medica EasyLyte Na/K, Na/K/Cl, Na/K/Li, Na/K/Cl/Li, Na/K/pH/Ca	7.748	7.717	- 7.779							160	155	- 165	7.44	7.11	- 7.78	0.80	0.68	- 0.92	124	118	- 130	2.41	2.26	- 2.55
Radiometer ABL 5	7.71	7.68	- 7.74	24.5	22.9	- 26.1	144	136	- 152															
Radiometer ABL 500, 500, 505, 510, 520, 555	7.752	7.721	- 7.783	21.6	20.2	- 23.0	145	137	- 153	170	165	- 175	7.64	7.30	- 7.99	0.65	0.56	- 0.75						
Radiometer ABL 600, 610, 620, EML-100	7.750	7.719	- 7.781	19.6	18.3	- 20.9	146	138	- 154	157	152	- 162	7.18	6.86	- 7.51	0.88	0.75	- 1.01	118	113	- 123			
Roche/AVL 990, 995	7.731	7.700	- 7.761	21.0	19.6	- 22.3	147	139	- 155															
Roche/AVL 9110, 9140	7.730	7.699	- 7.761							155	150	- 160	6.50	6.21	- 6.80	0.63	0.54	- 0.72						
Roche AVL 9120, 9130										155	151	- 160	6.50	6.21	- 6.80				126	120	- 131			
Roche/AVL 9180, 9181										157	152	- 162	6.68	6.38	- 6.98	0.54	0.46	- 0.62	118	113	- 123	2.35	2.21	- 2.49
Roche/AVL Cobas b 121	7.721	7.690	- 7.751	19.9	18.6	- 21.2	136	128	- 143	169	164	- 174	7.44	7.11	- 7.78	0.60	0.52	- 0.69	127	121	- 132			
Roche/AVL Cobas b 221	7.710	7.679	- 7.741	20.9	19.6	- 22.3	136	128	- 143	167	162	- 172	7.44	7.11	- 7.78	0.60	0.52	- 0.69	125	119	- 130			
Roche/AVL Compact Series	7.735	7.704	- 7.766	19.9	18.6	- 21.2	145	137	- 153															
Siemens/Bayer 248	7.632	7.602	- 7.663	24.4	22.8	- 26.0	132	124	- 139															
Siemens/Bayer 348	7.679	7.648	- 7.710	24.6	23.0	- 26.2	131	124	- 138	167	162	- 172	6.59	6.29	- 6.89	0.54	0.46	- 0.61	117	112	- 122			
Siemens/Bayer 614, 634, 644, 654, 664	7.76	7.73	- 7.79							160	155	- 165	7.15	6.83	- 7.47	0.58	0.50	- 0.67	124	119	- 130	2.26	2.12	- 2.39
Siemens/Bayer 840, 845, 850, 855, 860, 865	7.716	7.685	- 7.746	26.4	24.7	- 28.1	142	134	- 150	154	150	- 159	6.86	6.55	- 7.17	0.50	0.42	- 0.57	116	111	- 121			
Siemens/Bayer RapidPoint 400, 405	7.780	7.749	- 7.811	20.1	18.8	- 21.4	138	130	- 145	172	167	- 177	7.74	7.39	- 8.09	0.56	0.48	- 0.64	124	118	- 129			



**IVD**  
For In Vitro Diagnostic Use  
In Vitro Diagnosticum  
Usage In Vitro  
Para Uso Diagnostico In Vitro  
Utazur Aparas Lim Diagnostico In Vitro  
Ti In Vitro diagnosticering  
Описание прибора  
Для использования в лаборатории In Vitro



**CE**  
European Conformity  
CE-Konformitätskennzeichnung  
Conformité aux normes européennes  
Conformidad europea  
Conformidade com as normas europeias  
Europaisk overensstemmelse  
符合度  
Европейская Адекватность



Temperature Limit  
Temperaturlimit  
Limite de température  
Limite de temperatura  
Limite de temperatura  
Temperaturgrænse  
温度制限(使用用)  
Температурные ограничения



Consult Instructions for Use  
Gebrauchsanweisung beachten  
Consulte la notice d'emploi  
Consulte las instrucciones de uso  
Consulte as instruções de utilização  
Bent/brugningsvejledning  
使用説明書(使用用)  
Рекомендации по применению



Lot Number  
Chargen-Nr.  
Numero de lot  
Numero de lote  
Número de lote  
Batch number  
批号  
Номер серии



Use by (YYYY-MM-DD)  
Verwendbar bis (JJJJ-MM-TT)  
Date de péremption (AAAA-MM-JJ)  
Usar hasta el (AAAA-MM-DD)  
Utilizar até (AAAA-MM-DD)  
Använd för (AAAA-MM-DD)  
Заставити (YYYY-MM-DD)  
Исползовать для (год-месяц-день рождения)



Manufactured by  
Hergestellt von  
Fabriqué par  
Fabricado por  
Fabricado por  
Fremstillet af  
\*\*\*製造



Authorized Representative  
Bevollmächtigter  
Représentant agréé  
Representante autorizado  
Representante autorizado  
Autoriseret repræsentant  
授权代表  
Санкционированный представитель



Catalog Number  
Katalognummer  
Numero de catalogue  
Número de catálogo  
Número de catálogo  
Katalognr.  
产品目录号  
Номер каталога