

## INSTRUMENT MATRIX OF CUSTOMIZED LINEARITY KITS

ANALYZER	CBC-LINE	RET-LINE	PLT-LINE	ULTRA LOW LINEARITY
Abbott Cell-Dyn® 1600, 1700, 1800, 3000	CL009			UL001/UL002
Abbott Cell-Dyn 3200	CL016			UL001
Abbott Cell-Dyn 3500, 3700	CL017			UL001/UL002
Abbott Cell-Dyn 4000, Sapphire™	CL011	RCL001		UL001
Abbott Cell-Dyn Emerald, Emerald 22	CL034			UL001/UL002
Abbott Cell-Dyn Ruby™	CL022			UL001
Abbott Alinity hq	CL022			
Beckman Coulter® Ac•T 10	CL026			UL001/UL002
Beckman Coulter Ac•T 5 diff AL	CL027			UL001/UL002
Beckman Coulter Ac•T 5 diff CP, OV, diff™, diff 2	CL019			UL001/UL002
Beckman Coulter Ac•T™ 8	CL026			UL001/UL002
Beckman Coulter DxH 800	CL010	RCL001	CL010P	UL001/UL002
Beckman Coulter GEN•S	CL012	RCL002		UL001/UL002
Beckman Coulter HmX	CL009	RCL002		UL001/UL002
Beckman Coulter LH 500	CL025	RCL002	CL010P	UL001/UL002
Beckman Coulter LH 700 Series	CL010	RCL002	CL010P	UL001/UL002
Beckman Coulter MAXM™, STKS™	CL009	RCL002		UL001/UL002
CDS Technologies Excyte 5 Diff	CL028			UL001/UL002
Diatron Abacus 5	CL035			UL001/UL002
Drew D3	CL029			UL001/UL002
Drew Scientific Evolution	CL030			UL001/UL002
HemoCue Hb 201+, HemoCue B-Hemoglobin	HCL001			
Horiba Medical Micros 60, 60 CRP	CL020		CL010P	UL001/UL002
Horiba Medical Pentra 120/ Nexus	CL015	RCL001	CL010P	UL001/UL002
Horiba Medical Pentra 60	CL020		CL010P	UL001/UL002
Horiba Medical Pentra 60 C+	CL015		CL010P	UL001/UL002
Horiba Medical Pentra 80	CL024			UL001/UL002
Horiba Medical Pentra 80 XL/ Pentra XLR	CL018			UL001/UL002
Mindray BC-3200	CL019			UL001/UL002
Mindray BC-3600	CL009			UL001/UL002
Mindray BC-5390	CL018			UL001/UL002
Orphee Mythic 18, 22	CL031			UL001/UL002
Siemens® ADVIA® 120/2120/2120i	CL032	RCL002	CL010P	UL001
Siemens ADVIA 70	CL033		CL010P	UL001/UL002
Siemens ADVIA 60	CL026			UL001/UL002
Siemens ADVIA 360	CL036			UL001/UL002
Siemens ADVIA 560	CL035			UL001/UL002
Sysmex® SE-9500, SF-3000	CL019			UL001/UL002
Sysmex KX-21 / KX-21N	CL013			UL001/UL002
Sysmex XE-2100™/XE-2100D, 5000™, XN-Series	CL018	RCL001		UL001/UL002
Sysmex XS-1000i, XT-2000i™, XT-4000i™	CL018	RCL001		UL001/UL002
Sysmex XT-1800i™	CL018			UL001/UL002
Sysmex pocH-100i™	CL009			UL001/UL002

<b>LINEARITY KIT</b>	<b>CELL TYPE</b>	<b>LOW VALUE (approx)</b>	<b>HIGH VALUE (approx)</b>
UL001 (Ultra Low Range)	WBC (x10 <sup>3</sup> /uL)	0.08	8.0
	PLT (x10 <sup>3</sup> /uL)	2	220
UL002 (Ultra Low Range Plus RBC)	WBC (x10 <sup>3</sup> /uL)	0.08	8.0
	RBC (x10 <sup>6</sup> /uL)	0.005	4.00
	PLT (x10 <sup>3</sup> /uL)	2	220
CL001 (Low Range)	WBC (x10 <sup>3</sup> /uL)	0.5	8.0
	RBC (x10 <sup>6</sup> /uL)	0.25	4.50
	Hgb (g/dL)	0.7	13.5
	PLT (x10 <sup>3</sup> /uL)	11	220
CL009	WBC (x10 <sup>3</sup> /uL)	0.5	90.0
	RBC (x10 <sup>6</sup> /uL)	0.25	7.70
	Hgb (g/dL)	0.7	23.0
	PLT (x10 <sup>3</sup> /uL)	11	900
CL010	WBC (x10 <sup>3</sup> /uL)	0.5	420.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	2800
CL010P	PLT (x10 <sup>3</sup> /uL)	25	2800
CL011	WBC (x10 <sup>3</sup> /uL)	0.5	250.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	1700
CL012	WBC (x10 <sup>3</sup> /uL)	0.5	160.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	1500
CL013	WBC (x10 <sup>3</sup> /uL)	0.5	115.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	1300

<b>LINEARITY KIT</b>	<b>CELL TYPE</b>	<b>LOW VALUE (approx)</b>	<b>HIGH VALUE (approx)</b>
CL015	WBC (x10 <sup>3</sup> /uL)	0.5	160.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	2800
CL016	WBC (x10 <sup>3</sup> /uL)	0.5	240.0
	RBC (x10 <sup>6</sup> /uL)	0.25	7.70
	Hgb (g/dL)	0.7	23.0
	PLT (x10 <sup>3</sup> /uL)	11	1500
CL017	WBC (x10 <sup>3</sup> /uL)	0.5	240.0
	RBC (x10 <sup>6</sup> /uL)	0.25	7.70
	Hgb (g/dL)	0.7	23.0
	PLT (x10 <sup>3</sup> /uL)	11	1700
CL018	WBC (x10 <sup>3</sup> /uL)	0.5	420.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	5000
CL019	WBC (x10 <sup>3</sup> /uL)	0.5	90.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	1300
CL020	WBC (x10 <sup>3</sup> /uL)	0.5	120.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	4000
CL021	WBC (x10 <sup>3</sup> /uL)	0.5	420.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	5000
CL022	WBC (x10 <sup>3</sup> /uL)	0.5	240.0
	RBC (x10 <sup>6</sup> /uL)	0.25	7.70
	Hgb (g/dL)	0.7	23.0
	PLT (x10 <sup>3</sup> /uL)	11	2800

<b>LINEARITY KIT</b>	<b>CELL TYPE</b>	<b>LOW VALUE (approx)</b>	<b>HIGH VALUE (approx)</b>
CL024	WBC (x10 <sup>3</sup> /uL)	0.5	120.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	2800
CL025	WBC (x10 <sup>3</sup> /uL)	0.5	240.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	2800
CL026	WBC (x10 <sup>3</sup> /uL)	0.5	90.0
	RBC (x10 <sup>6</sup> /uL)	0.25	7.70
	Hgb (g/dL)	0.7	23.0
	PLT (x10 <sup>3</sup> /uL)	11	1300
CL027	WBC (x10 <sup>3</sup> /uL)	0.5	115.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	900
CL028	WBC (x10 <sup>3</sup> /uL)	0.5	115.0
	RBC (x10 <sup>6</sup> /uL)	0.25	7.70
	Hgb (g/dL)	0.7	23.0
	PLT (x10 <sup>3</sup> /uL)	11	1300
CL029	WBC (x10 <sup>3</sup> /uL)	0.5	90.0
	RBC (x10 <sup>6</sup> /uL)	0.25	7.70
	Hgb (g/dL)	0.7	23.0
	PLT (x10 <sup>3</sup> /uL)	11	1700
CL030	WBC (x10 <sup>3</sup> /uL)	0.5	90.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	900
CL031	WBC (x10 <sup>3</sup> /uL)	0.5	115.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	2800

LINEARITY KIT	CELL TYPE	LOW VALUE (approx)	HIGH VALUE (approx)
CL032	WBC (x10 <sup>3</sup> /uL)	0.5	420.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	4000
CL033	WBC (x10 <sup>3</sup> /uL)	0.5	90.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	2800
CL034	WBC (x10 <sup>3</sup> /uL)	0.5	115.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	1500
CL035	WBC (x10 <sup>3</sup> /uL)	0.5	115.0
	RBC (x10 <sup>6</sup> /uL)	0.25	7.70
	Hgb (g/dL)	0.7	23.0
	PLT (x10 <sup>3</sup> /uL)	11	1300
CL036	WBC (x10 <sup>3</sup> /uL)	0.5	90.0
	RBC (x10 <sup>6</sup> /uL)	0.25	8.10
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	1300
HCL001	Hgb (g/dL)	3.0	23.0
RCL001*	Retic %	0.50	20.00-40.00
RCL002	Retic %	1.00	24.5

\* The RCL001 will recover between 20.00%-40.00% depending on the analyzer  
Linearity Kits from R&D Systems are custom designed to evaluate the linearity claims of individual hematology analyzers. Approximate values shown are guidelines only. Each laboratory's recovery of values will be dependent on the instrument's calibration and performance.  
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