

## INSTRUMENT MATRIX OF CUSTOMIZED LINEARITY KITS

ANALYZER	CBC-LINE	RET-LINE	PLT-LINE	ULTRA LOW LINEARITY
Abbott Cell-Dyn® 1700	CL009			UL001/UL002
Abbott Cell-Dyn 1800	CL009			UL001/UL002
Abbott Cell-Dyn 3000	CL009			UL001/UL002
Abbott Cell-Dyn 3200	CL016			UL001
Abbott Cell-Dyn 3500	CL017		CL011P	UL001/UL002
Abbott Cell-Dyn 3700	CL017		CL011P	UL001/UL002
Abbott Cell-Dyn 4000	CL011	RCL001	CL011P	UL001/UL002
Abbott Cell-Dyn Emerald	CL013			UL001/UL002
Abbott Cell-Dyn Ruby™	CL022			UL001
Abbott Cell-Dyn Sapphire™	CL011	RCL001	CL011P	UL001/UL002
Abbott Cell-Dyn® 1600	CL009			UL001/UL002
Beckman Coulter® Ac•T 10	CL009 + PLT Level 8			UL001/UL002
Beckman Coulter Ac•T 5 diff AL	CL019 + WBC Level 7			UL001/UL002
Beckman Coulter Ac•T 5 diff CP	CL019			UL001/UL002
Beckman Coulter Ac•T 5 diff OV	CL019			UL001/UL002
Beckman Coulter Ac•T diff 2™	CL019			UL001/UL002
Beckman Coulter Ac•T diff™	CL019			UL001/UL002
Beckman Coulter Ac•T™ 8	CL009 + PLT Level 8			UL001/UL002
Beckman Coulter DxH 800	CL010	RCL001	CL010P	UL001/UL002
Beckman Coulter GEN•S	CL012	RCL003		UL001/UL002
Beckman Coulter HmX	CL009	RCL003		UL001/UL002
Beckman Coulter LH 500	CL025	RCL003	CL010P	UL001/UL002
Beckman Coulter LH 700 Series	CL010	RCL003	CL010P	UL001/UL002
Beckman Coulter MAXM™	CL009	RCL003		UL001/UL002
Beckman Coulter STKS™	CL009	RCL003		UL001/UL002
CDS Technologies Excyte 5 Diff	CL009 + WBC Level 7, PLT Level 8			UL001/UL002
Chempaq XBC	CL023			
Drew D3	CL009 + PLT Level 9, 10			UL001/UL002
Drew Scientific Evolution	CL009 + RBC Level 7			UL001/UL002
HemoCue® B-Glucose	GL001			
HemoCue Glucose 201	GL001			
HemoCue Hb 201+	HCL001			
HemoCue B-Hemoglobin	HCL001			
Horiba Medical Micros 60	CL020		CL020P	UL001/UL002
Horiba Medical Micros 60 Blood Bank	CL009 + PLT Level 10, 12, 13		CL018P	UL001/UL002
Horiba Medical Micros 60 CRP	CL009 + PLT Level 8			UL001/UL002
Horiba Medical Pentra 120	CL015 + PLT Level 12	RCL001	CL020P	UL001/UL002
Horiba Medical Pentra 60	CL024		CL010P	UL001/UL002
Horiba Medical Pentra 60 C+	CL024		CL010P	UL001/UL002
Horiba Medical Pentra 80	CL024		CL010P	UL001/UL002
Horiba Medical Pentra 80 XL (whole blood)	CL015		CL010P	UL001/UL002
Horiba Medical Pentra 80 XL (Plt concentrate)	CL010		CL010P	UL001/UL003
Horiba Medical Pentra 80 XL (whole blood CDR)	CL021 + PLT Level 11			UL001/UL004
Horiba Medical Pentra 80 XL (Plt concentrate CDR)	CL021			UL001/UL005
Mindray BC-3200	CL019			UL001/UL002
Orphee Mythic 18	CL019 + WBC Level 7, PLT Level 9, 10, 11			UL001/UL002
Orphee Mythic 22	CL019 + WBC Level 7, PLT Level 9, 10, 11			UL001/UL002
Siemens ADVIA 120/2120/2120i	CL010 + PLT Level 12	RCL002	CL010P	UL001/UL002
Siemens ADVIA 70	CL009 + PLT Level 9, 10, 11		CL010P	UL001/UL002
Siemens ADVIA® 60	CL009 + PLT Level 8			UL001/UL002
Sysmex® SE-9500	CL019			UL001/UL002
Sysmex SF-3000	CL019			UL001/UL002
Sysmex XE-2100™/XE-2100D	CL018	RCL001	CL018P	UL001/UL002
Sysmex XE-5000™	CL018	RCL001	CL018P	UL001/UL002
Sysmex XS-1000i	CL018		CL018P	UL001/UL002
Sysmex XT-1800i™	CL018		CL018P	UL001/UL002
Sysmex XT-2000i™	CL018	RCL001	CL018P	UL001/UL002
Sysmex XT-4000i™	CL018	RCL001	CL018P	UL001/UL002

LINEARITY KIT	CELL TYPE	LOW VALUE (approx)	HIGH VALUE (approx)
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 ADVIA 60, Excyte 5 diff, Act 8/10, Micros CRP Drew D3 Micros 60 Blood Bank	WBC (x10 <sup>3</sup> /uL)	0.5	90.0
	Excyte 5 diff WBC (x10 <sup>3</sup> /uL)	0.5	120.0
	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
	PLT (x10 <sup>3</sup> /uL)	11	1000
	PLT (x10 <sup>3</sup> /uL)	11	1700
PLT (x10 <sup>3</sup> /uL)	11	5000	
CL010 ADVIA 120/2120/2120i	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
	PLT (x10 <sup>3</sup> /uL)	11	4000
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
CL011P	PLT (x10 <sup>3</sup> /uL)	25	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	7.50
	Hgb (g/dL)	0.7	24.5
	PLT (x10 <sup>3</sup> /uL)	11	1300
CL015 Pentra 120	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
	PLT (x10 <sup>3</sup> /uL)	11	4000
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
CL018P	PLT (x10 <sup>3</sup> /uL)	25	5000

LINEARITY KIT	CELL TYPE	LOW VALUE (approx)	HIGH VALUE (approx)
Ac•T 5 diff AI, Mythic 18, Mythic 22 CL019	WBC (x10 <sup>3</sup> /uL)	0.5	90.0
	WBC (x10 <sup>3</sup> /uL)	0.5	120.0
	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
ADVIA 70, Mythic 18, Mythic 22	PLT (x10 <sup>3</sup> /uL)	11	1000
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
CL020P	PLT (x10 <sup>3</sup> /uL)	25	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
CL023	WBC (x10 <sup>3</sup> /uL)	1.5	90.0
	RBC (x10 <sup>6</sup> /uL)	2.35	7.70
	Hgb (g/dL)	7.0	23.0
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
GL001	Glucose (mg/dL)	35	350
HCL001	Hgb (g/dL)	3.0	23.0
RCL001	Retic %	0.50	40.00
RCL002	Retic %	1.00	24.5
RCL003	Retic%	0.50	30.00

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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