

Hematology Products

Controls, Calibrators, Linearity Materials, QC Program

Plus

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R&D Systems Hematology Products

R&D Systems, Inc., a specialty manufacturer of biological products, was founded and incorporated in 1976 in Minneapolis, Minnesota. For the past 42 years, we have continued to develop hematology products for clinical laboratory use. In 2014 the division which is now part of the bio-techne corporation was renamed Diagnostics Division. R&D Systems remains the brand name.

Monitoring of existing products, as well as validating improvements to products, is conducted in an on-going basis to ensure that R&D Systems is responding to your needs and providing hematology products you can rely on. R&D Systems produces over 45 different products for all major hematology instruments manufactured throughout the world, including instruments manufactured by: Abbott Diagnostics (Abbott), Horiba Medical (HORIBA), Beckman Coulter[®], Inc. (Beckman Coulter), BD Biosciences, HemoCue[®], Inc. (HemoCue), Siemens Healthineers Diagnostics (Siemens), and Sysmex[®] Corporation (Sysmex). Our product line includes controls, calibrators, linearity, and survey materials.

The CBC-Monitor2 Interlaboratory Quality Control Program is available free of charge to all customers.

Our Technical Service laboratory staff's experience with instruments and controls provides users of all R&D Systems hematology products with superior technical service support. Each customer phone call is answered by a technically qualified person within 30 seconds.

In addition, our Sales and Customer Service staff are available to assist you with any product inquiries, orders, or any issues related to service. Customer calls are answered by a highly qualified staff person with extensive knowledge of the R&D Systems product line and relevant instruments.

Your future hematology control needs are anticipated in our new product development projects ensuring that R&D Systems will continue to be a source you can look to for your laboratory's hematology control materials.



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Products for Abbott

	CBC-3K	CBC-3D	PLATELET-TROL Extended	R&D 3K Retic	R&D 4K Retic	CBC-LINE	CBC-LINE Ultra Low	CBC-LINE Ultra Low Plus RBC	PLT-LINE	RET-LINE	CD-Cal
CELL-DYN 3200	1			1		∕*	∕*				1
CELL-DYN Ruby™	1			1		⁄*	∕*				1
CELL-DYN Emerald™		1				⁄*	∕*	∕*			
CELL-DYN 3500, 3700	1					⁄*	√ *	√*	√*		J
CELL-DYN 3500 VET, 3700 VET						⁄*	∕*	∕*	∕*		
CELL-DYN 4000						∕*	√*		√*	1	
CELL-DYN SAPPHIRE™	1		1		1	⁄*	∕*		√*	1	1
Manual Methodologies/ Semi-automated	1				1						

KEY 🖌 = Assay Values are available for each instrument. 🖌 * = Please call or check our website for catalog number best suited for your analyzer.

CBC-3K Whole Blood Control (Five-Part WBC Differential)

CBC-3K is a tri-level control for monitoring the Abbott CELL-DYN SAPPHIRE hematology analyzers. The CELL-DYN SAPPHIRE assay tables include values for 26 parameters. Assay values are also provided for the CELL-DYN 3200, 3500, 3700, Ruby, and manual methods. CBC-3K has 75-day closed vial stability with 8-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	3K301	10 x 3 mL (10 Normal)
	3K302	10 x 3 mL (5 Low, 5 High)
	3K303	12 x 3 mL (4 Low, 4 Normal, 4 High)
	3K303X	6 x 3 mL (2 Low, 2 Normal, 2 High)

CBC-3D® Whole Blood Control (Three-Part WBC Differential)

CBC-3D is a tri-level control for monitoring Abbott CELL-DYN instruments. CBC-3D has 105-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Vials	3D501	10 x 2 mL (Normal)
	3D502	10 x 2 mL (5 Low, 5 High)
	3D503	12 x 2 mL (4 Low, 4 Normal, 4 High)
Tubes	3D507	12 x 2 mL (4 Low, 4 Normal, 4 High)
	3D508	6 x 2 mL (2 Low, 2 Normal, 2 High)
	3D515	8 x 5 mL (Normal)
	3D516	8 x 5 mL (4 Low, 4 High)
	3D517	12 x 5 mL (4 Low, 4 Normal, 4 High)

PLATELET-TROL® Extended Platelet Control

PLATELET-TROL Extended is a multi-level control designed specifically for monitoring the elevated platelet ranges of hematology analyzers. PLATELET-TROL Extended has 75-day closed vial stability with 14-day open vial stability. Kit requires high speed vortexer.

	CATALOG #	INSTRUMENT	DESCRIPTION
Tubes	PTE006	Abbott CELL-DYN SAPPHIRE	12 x 3 mL (4 each: Level 3, 5, 6)*
*Approxi	mate Plt values (u	inits in 10³/mL):	

Level 3: 1000 Level 5: 2000 Level 6: 3000

Products for Abbott

R&D 3K Retic Whole Blood Reticulocyte Control

R&D 3K Retic is a bi-level whole blood reticulocyte control designed specifically for the Abbott CELL-DYN 3200 and Ruby hematology analyzers. The target values for the levels are Level 1: 1.2 % and Level 2: 5.0 %. R&D 3K Retic has 75-day closed vial stability with 16-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	3R001	4 x 3 mL (2 each: Level 1, 2)
	3R002	10 x 3 mL (5 each: Level 1, 2)

R&D 4K Retic Whole Blood Reticulocyte Control

R&D 4K Retic is a bi-level whole blood reticulocyte control designed specifically for the Abbott CELL-DYN SAPPHIRE hematology analyzers. Assay values are also provided for manual methods. The target values for the levels are Level 1: 1.0 % and Level 2: 10.0 %. R&D 4K Retic has 75-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	4R001	4 x 3 mL (2 each: Level 1, 2)
	4R002	10 x 3 mL (5 each: Level 1, 2)

CD-Cal Whole Blood Calibrator

CD-Cal is designed for calibration of Abbott CELL-DYN 3200, Ruby, and SAPPHIRE hematology analyzers. Values are provided for WBC, RBC, Hgb, MCV, and Plt. MPV values are provided for the CELL-DYN SAPPHIRE. CD-Cal has 45-day closed vial stability with 7-day open vial stability.

	CATALOG #	DESCRIPTION	
Tubes	3KC11	2 x 3 mL	
	3KC12	5 x 3 mL	

CBC-LINE

Contains pre-diluted WBC, RBC/Hgb, and Plt levels. Kits are customized to the reportable range capabilities of all major hematology analyzers to provide a kit best suited to your needs. When CBC-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

CBC-LINE Ultra Low/Ultra Low Plus RBC

CBC-LINE Ultra Low/Ultra Low Plus RBC Range Linearity Kits are prediluted samples that provide a means of measuring a hematology instrument's performance and reportable range at the very low end of the linearity range for white blood cell and platelet parameters (UL001) or white blood cell, red blood cell, and platelet determinations (UL002). Linearity combined with independently verified and documented calibration is used to establish the range of lowest patient values that can be accurately reported. CBC-LINE Ultra Low/Ultra Low Plus RBC kits have 105-day closed vial stability with an immediate use for open vial stability.

PLT-LINE

Contains pre-diluted platelet levels. Kits are customized to the reportable range capabilities of the hematology analyzers to provide a kit best suited to your needs. When PLT-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

RET-LINE

Contains a series of reticulocyte concentrations to test your hematology analyzer's ability to accurately recover reticulocyte counts across a range of values. Each kit includes one Instrument Evaluation Report at no extra charge.

Products for HORIBA

	PLATELET-TROL Extended	CBC-LINE	CBC-LINE Ultra Low	CBC-LINE Ultra Low Plus RBC	PLT-LINE	RET-LINE
Micros 60	1	∕*	∕*	√*		
Pentra 60, 60 C+		∕*	∕*	∕*	∕*	
Pentra 80	1	∕*	√ *	∕*	∕*	
Pentra 80 XL		∕*	√ *	√*	∕*	
Pentra 120		√ *	√ *	∕*	√ *	1

KEY 🗸 = Assay Values are available for each instrument. 🖌 * = Please call or check our website for catalog number best suited for your analyzer.

PLATELET-TROL® Extended Platelet Control

PLATELET-TROL Extended is a multi-level control designed specifically for monitoring the elevated platelet ranges of hematology analyzers. PLATELET-TROL Extended has 75-day closed vial stability with 14-day open vial stability.

	CATALOG #	INSTRUMENT	DESCRIPTION	
Tubes	PTE004	ABX Pentra 80	12 x 3 mL (4 ea	nch: Level 3, 4, 5)*
	PTE006	ABX Micros 60	12 x 3 mL (4 ea	ach: Level 3, 5, 6)*
*Approxi Level 3:	mate Plt values (u 1000 Le	nits in 10 ³ /mL): evel 4: 1500	Level 5: 2000	Level 6: 3000

CBC-LINE

Contains pre-diluted WBC, RBC/Hgb, and Plt levels. Kits are customized to the reportable range capabilities of all major hematology analyzers to provide a kit best suited to your needs. When CBC-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

CBC-LINE Ultra Low/Ultra Low Plus RBC

CBC-LINE Ultra Low/Ultra Low Plus RBC Range Linearity Kits are pre-diluted samples that provide a means of measuring a hematology instrument's performance and reportable range at the very low end of the linearity range for white blood cell and platelet parameters (UL001) or white blood cell, red blood cell, and platelet determinations (UL002). Linearity combined with independently verified and documented calibration is used to establish the range of lowest patient values that can be accurately reported. CBC-LINE Ultra Low/Ultra Low Plus RBC kits have 105-day closed vial stability with an immediate use for open vial stability.

PLT-LINE

Contains pre-diluted platelet levels. Kits are customized to the reportable range capabilities of the hematology analyzers to provide a kit best suited to your needs. When PLT-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

RET-LINE

Contains a series of reticulocyte concentrations to test your hematology analyzer's ability to accurately recover reticulocyte counts across a range of values. Each kit includes one Instrument Evaluation Report at no extra charge.

Products for BD Biosciences

	R&D LeukoReduced RBC/PLT	StatusFlow Series	R&D Retic-I	FETALtrol
BD FACalibur	1	1	1	1
BD FACScanto II	1	1		1
Manual Methodologies	1		1	1

KEY ✓ = Assay Values are available for each instrument

R&D LeukoReduced RBC/PLT Control

LeukoReduced RBC/PLT Control is a bi-level control product to monitor flow cytometer and Nageotte Chamber methods for quantification of residual leukocytes in leukoreduced red blood cell and platelet products. The WBC target values for the levels are Level 1: 2.0 μ L and Level 2: 20.0 μ L. Leuko-Reduced RBC/PLT has a closed vial stability of 75 days with an open vial stability of 30 days or 21 thermal cycles.

	CATALOG #	DESCRIPTION
Tubes	LRR001	2 x 3 mL (RBC - 1 each: Level 1, 2)
	LRP001	2 x 3 mL (PLT - 1 each: Level 1, 2)
	LRC001	4 x 3 mL (RBC and PLT - 1 each: Level 1, 2)

StatusFlow[®] Flow Cytometry Control

StatusFlow is a stable preparation of human peripheral leukocytes and erythrocytes designed for use as a control in immunophenotyping when evaluating RBC lysis, antibody reactivity, instrument set-up, and instrument performance by flow cytometry. Assay values are reported as a percent of total lymphocytes and as the number of cells for the following phenotypes: CD3⁺, CD3⁺, CD3⁺, CD3⁺, CD3⁺, CD19⁺, CD3⁺, CD3⁺, CD3⁺, CD2⁺, and HLA-DR⁺. Target values (for research use only) are also provided for the following CD markers: kappa, lambda, CD8⁺/CD38⁺, CD3⁺/CD14⁺, CD7⁺/CD3⁺, CD5⁺, CD2⁺/CD3⁻, and CD13⁺. Target values for CD45 and CD14, which are intended for gating purposes only, are also included. StatusFlow has a closed vial stability of 45 days with an open vial stability of 9 thermal cycles.

	CATALOG #	DESCRIPTION
Hemogard Tubes	FC202	2 x 2.5 mL
	FC302	3 x 2.5 mL
	FC402	4 x 2.5 mL
	FC502	5 x 2.5 mL
	FC204	2 x 4 mL
	FC404	4 x 4 mL
	FC504	5 x 4 mL

StatusFlow^{L0} Flow Cytometry Control

StatusFlow^{L0} is designed to team with StatusFlow to provide a two-level whole blood reference control for monitoring low CD3⁺/CD4⁺ cell counts. Assay values are reported as a percent of total lymphocytes and as the number of cells for CD3⁺, CD3⁺/CD4⁺, CD3⁺/CD8⁺, CD19⁺, and CD3⁻/CD16⁺56⁺. The CD3⁺/CD4⁺ cell count is less than 200 cells/µL. Status-Flow^{L0} has a closed vial stability of 45 days with an open vial stability of 9 thermal cycles.

	CATALOG #	DESCRIPTION
Hemogard Tubes	FC235	1 x 2.5 mL
	FC237	2 x 2.5 mL

StatusFlow^{PRO} Flow Cytometry Control

StatusFlow^{PRO} contains human stem cells and can be used with most flow cytometry methods for identifying CD34⁺ cells. StatusFlow^{PRO} offers two clinically relevant levels of CD34⁺ cells. Target values for the Low Level CD34 are approximately 10 cells/µL. Target values for the High Level CD34 are approximately 35 cells/µL. Statusflow^{PRO} facilitates the evaluation of CD34⁺ gating strategy, evaluation of the CD34 antibody clone selection, lysing reagents and data analysis. StatusFlow^{PRO} has a closed vial stability of 45 days with an open vial stability of 9 thermal cycles.

CATALOG #	DESCRIPTION
FC234L	1 x 1.5 mL Status Flow ^{PRO} (Low)
FC234H	1 x 1.5 mL Status Flow ^{PRO} (High)
FC236L	2 x 1.5 mL Status Flow ^{PRO} (Low)
FC236H	2 x 1.5 mL Status Flow ^{PRO} (High)
FC238	2 x 1.5 mL Status Flow ^{PRO} (1 each: Low, High)
	FC234L FC234H FC236L FC236H

R&D Retic-I Whole Blood Reticulocyte Control

R&D Retic-I is a tri-level whole blood reticulocyte control for manual and automated counting methods. Assay values are provided for the manual method, manual with Miller ocular, and Flow Cytometers using Retic-COUNT Thiazole Orange. The target values for the levels are Level 1: 1.0 %; Level 2: 5.0 %; Level 3: 10.0 %. R&D Retic-I has 75-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Vials	RI001	9 x 1.5 mL (3 each: Level 1, 2, 3)
	RI005	3 x 1.5 mL (1 each: Level 1, 2, 3)
Tubes	RI003	9 x 3 mL (3 each: Level 1, 2, 3)
	RI004	3 x 3 mL (1 each: Level 1, 2, 3)

FETALtrol[™]

FETALtrol is a tri-level control product used for the assessment of fetomaternal hemorrhage. FETALtrol can be used to control both flow cytometry assays and manual stains (KB) for the detection of RBCs containing HbF or Rho (D antigen). FETALtrol has a closed vial stability of 105 days with an open vial stability of 25 thermal cycles.

	CATALOG #	DESCRIPTION
Vials	FH101	6 x 2 mL (2 each: Level 1, 2, 3)
	FH102	3 x 2 mL (1 each: Level 1, 2, 3)

Products for Beckman Coulter

	CBC-5D	CBC-7	Body Fluid-I	PLATELET-TROL Extended	R&D LeukoReduced RBC/PLT	StatusFlow [®] Series	R&D Retic-I Plus	R&D Retic-I	R&D Retic-I for DxH 800	CBC-LINE	CBC-LINE Ultra Low	CBC-LINE Ultra Low Plus RBC	PLT-LINE	RET-LINE	RET-LINE B	CBC-CAL PLUS	FETALtrol
Unicel [®] DxH [™] 800, 600	1		1						1	∕*	√ *	∕*	√*	1		1	
Semi-Auto		1															
Gen∙S™										∕*	√*	√*			1		
LH 700 Series	1		1	1			1			∕*	✓*	√*	√*		1	1	
LH 500 Series	1						1			/ *	/ *	∕*	√*		1	1	
HMX										√*	√ *	∕*			1	1	
Ac • T™ 8, Ac • T 10™										√*	/ *	√*					
Ac • T diff™, Ac • T diff 2™										√*	/ *	√*					
Ac•T 5 diff AL										/ *	/ *	√*					
Ac•T 5 diff OV										/ *	/ *	∕*					
Ac•T 5 diff CP										/ *	/ *	∕*					
Elite, Epics, Profile, Epics XL, FC 500					1	1		1									1
Manual Methodologies/ Semi-Automated		1			1			1									

KEY 🗸 = Assay Values are available for each instrument. 🗸 * = Please call or check our website for catalog number best suited for your analyzer.

CBC-5D Whole Blood Control (Five-Part WBC Differential)

CBC-5D is a tri-level control designed specifically for Beckman Coulter LH 500, LH 700 Series and DxH 800/600 hematology analyzers. The assay table includes values for 23 parameters including nRBCs. CBC-5D is barcoded for the correct QC file access. Bar codes are available for uploading assay values on the Coulter LH500, LH700 Series and DxH 800/600. CBC-5D has 105-day closed vial stability with an open vial stability of 14 samples within 14 days.

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CBC-1	whole	Riood	Control

CBC-7 is a tri-level control used for manual and semi-automated instruments. CBC-7 has 105-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Vials	72001	10 x 2 mL (Normal)
	72002	10 x 2 mL (5 Low, 5 High)
	72003	12 x 2 mL (4 Low, 4 Normal, 4 High)
	72004	6 x 2 mL (2 Low, 2 Normal, 2 High)

	CATALOG #	DESCRIPTION
Tubes	5D003	12 x 5 mL (4 each: Level 1, 2, 3)
	5D004	6 x 5 mL (2 each: Level 1, 2, 3)

# Products for Beckman Coulter

### PLATELET-TROL[®] Extended Platelet Control

PLATELET-TROL Extended is a multi-level control designed specifically for monitoring the elevated platelet ranges of hematology analyzers. PLATE-LET-TROL Extended has 75-day closed vial stability with 14-day open vial stability. Kit requires high speed vortexer.

	CATALOG #	INSTRUMENT	DESCRIPTION
Tubes	PTE006	Coulter LH 700 Series	12 x 3 mL (4 each: Level 3, 5, 6)*
*Approxi	mate Plt values	(units in 10 ³ /mL):	
Level 3:	1000	Level 5: 2000	Level 6: 3000

#### **R&D LeukoReduced RBC/PLT Control**

LeukoReduced RBC/PLT Control is a bi-level control product to monitor flow cytometer and Nageotte Chamber methods for quantification of residual leukocytes in leukoreduced red blood cell and platelet products. The WBC target values for the Levels are Level 1: 2.0  $\mu$ L and Level 2: 20.0  $\mu$ L. Leuko-Reduced RBC/PLT has a closed vial stability of 75 days with an open vial stability of 30 days or 21 thermal cycles.

	CATALOG #	DESCRIPTION
Tubes	LRR001	2 x 3 mL (RBC: 1 each: Level 1, 2)
	LRP001	2 x 3 mL (PLT: 1 each: Level 1, 2)
	LRC001	4 x 3 mL (RBC and PLT: 1 each: Level 1, 2)

#### StatusFlow[®] Flow Cytometry Control

StatusFlow is a stable preparation of human peripheral leukocytes and erythrocytes designed for use as a control in immunophenotyping when evaluating RBC lysis, antibody reactivity, instrument set-up, and instrument performance by flow cytometry. Assay values are reported as a percent of total lymphocytes and as the number of cells for the following phenotypes: CD3⁺, CD3⁺/CD4⁺, CD3⁺/CD8⁺, CD19⁺, CD3⁻/CD16⁺56⁺, CD20⁺, CD2⁺, and HLA-DR⁺. Target values (for research use only) are also provided for the following CD markers: kappa, lambda, CD8⁺/CD38⁺, CD33⁺/CD14⁺, CD7⁺/CD3⁺, CD5⁺, CD22⁺/CD3⁻, and CD13⁺. Target values for CD45 and CD14, which are intended for gating purposes only, are also included. StatusFlow has a closed vial stability of 45 days with an open vial stability of 9 thermal cycles.

	CATALOG #	DESCRIPTION
Hemogard Tubes	FC202	2 x 2.5 mL
	FC302	3 x 2.5 mL
	FC402	4 x 2.5 mL
	FC502	5 x 2.5 mL
	FC204	2 x 4 mL
	FC404	4 x 4 mL
	FC504	5 x 4 mL

### StatusFlow^{L0} Flow Cytometry Control

StatusFlow^{L0} is designed to team with StatusFlow to provide a two-level whole blood reference control for monitoring low CD3⁺/CD4⁺ cell counts. Assay values are reported as a percent of total lymphocytes and as the number of cells for CD3⁺, CD3⁺/CD4⁺, CD3⁺/CD8⁺, CD19⁺, and CD3⁻/CD16⁺56⁺. The CD3⁺/CD4⁺ cell count is less than 200 cells/µL. StatusFlow^{L0} has a closed vial stability of 45 days with an open vial stability of 9 thermal cycles.

	CATALOG #	DESCRIPTION
Hemogard Tubes	FC235	1 x 2.5 mL
	FC237	2 x 2.5 mL

#### StatusFlow^{PRO} Flow Cytometry Control

StatusFlow^{PRO} contains human stem cells and can be used with most flow cytometry methods for identifying CD34⁺ cells. StatusFlow^{PRO} offers two clinically relevant levels of CD34⁺ cells. Target values for the Low Level CD34 are approximately 10 cells/µL. Target values for the High Level CD34 are approximately 35 cells/µL. Statusflow^{PRO} facilitates the evaluation of CD34⁺ gating strategy, evaluation of the CD34 antibody clone selection, lysing reagents and data analysis. StatusFlow^{PRO} has a closed vial stability of 45 days with an open vial stability of 9 thermal cycles.

FC234L	1 x 1.5 mL Status Flow PRO (Low)
FC234H	1 x 1.5 mL Status Flow ^{PRO} (High)
FC236L	2 x 1.5 mL Status Flow ^{PRO} (Low)
FC236H	2 x 1.5 mL Status Flow ^{PRO} (High)
FC238	2 x 1.5 mL Status Flow ^{PRO} (1 each: Low, High)
	FC236H

### **Body Fluid-I**

Body Fluid-I is an assayed hematology control intended to monitor the reliability of the Beckman Coulter LH 700 Series and DxH 800/600 instruments that quantitatively measure red and white blood cell counts in cerebrospinal fluids, serous fluids, and synovial fluids. Body Fluid-I has a 75-day closed vial stability with 30-day open vial stability.

	CATALOG #	DESCRIPTION
Vials	BFI001	3 x 3 mL (1 each: Level 1, 2, 3)
BFI002		6 x 3 mL (2 each: Level 1, 2, 3)

#### **R&D Retic-I Plus Whole Blood Reticulocyte Control**

R&D Retic-I Plus is a tri-level whole blood reticulocyte control for Beckman Coulter LH 500 and LH 700 Series. The target values for the levels are Level 1: 1.2%; Level 2: 7.0%; Level 3: 12.0%. R&D Retic-I Plus has 75-day closed vial stability with 14-day open vial stability.

CATALOG # DESCRIF		DESCRIPTION		
Tubes RP401		3 x 4 mL (1 each: Level 1, 2, 3)		
	RP403	9 x 4 mL (3 each: Level 1, 2, 3)		

# Products for Beckman Coulter

### **FETALtrol[™]**

FETALtrol is a tri-level control product used for the assessment of fetomaternal hemorrhage. FETALtrol can be used to control both flow cytometry assays and manual stains (KB) for the detection of RBCs containing HbF or Rho (D antigen). FETALtrol has a closed vial stability of 105 days with an open vial stability of 25 thermal cycles.

CATALOG # DESCRIPT   Vials FH101 6 x 2 mL (x)		DESCRIPTION
		6 x 2 mL (2 each: Level 1, 2, 3)
	FH102	3 x 2 mL (1 each: Level 1, 2, 3)

### R&D Retic-I for DxH 800 Whole Blood Reticulocyte Control

R&D Retic-I for DxH 800 is a tri-level whole blood reticulocyte control for the Beckman Coulter DxH 800 analyzer. The target values for the levels are Level 1: 1.0%; Level 2: 4.0%; Level 3: 8.0%. R&D Retic-I for DxH 800 has 75-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	RDXH01	3 x 3 mL (1 each: Level 1, 2, 3)
	RDXH03	9 x 3 mL (3 each: Level 1, 2, 3)

### **R&D Retic-I Whole Blood Reticulocyte Control**

R&D Retic-I is a tri-level whole blood reticulocyte control for manual and automated counting methods. Assay values are provided for the manual method, manual with Miller ocular, and Flow Cytometers using Retic-COUNT Thiazole Orange. The target values for the levels are Level 1: 1.0 %; Level 2: 5.0 %; Level 3: 10.0 %. R&D Retic-I has 75-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION		
Vials	RI001	9 x 1.5 mL (3 each: Level 1, 2, 3)		
	RI005	3 x 1.5 mL (1 each: Level 1, 2, 3)		
Tubes	RI003	9 x 3 mL (3 each: Level 1, 2, 3)		
	RI004	3 x 3 mL (1 each: Level 1, 2, 3)		

# **CBC-CAL PLUS Whole Blood Calibrator**

CBC-CAL PLUS is designed for the calibration of most models of Beckman Coulter hematology analyzers. Values are provided for WBC, RBC, Hgb, Hct, MCV, Plt, and MPV parameters for Isoton[®] II, Isoton III, and Isoton III/UNI-T-PAK reagent systems. Bar Codes are available for uploading assay values to the Coulter HMX, GEN • S, LH 500, LH 700 Series and DxH 800. CBC-CAL PLUS has 45-day closed vial stability with 7-day open vial stability.

Tubes 80	CP33 3	3 x 4.5 mL

# **CBC-LINE**

Contains pre-diluted WBC, RBC/Hgb, and Plt levels. Kits are customized to the reportable range capabilities of all major hematology analyzers to provide a kit best suited to your needs. When CBC-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

### CBC-LINE Ultra Low/Ultra Low Plus RBC

CBC-LINE Ultra Low/Ultra Low Plus RBC Range Linearity Kits are pre-diluted samples that provide a means of measuring a hematology instrument's performance and reportable range at the very low end of the linearity range for white blood cell and platelet parameters (UL001) or white blood cell, red blood cell, and platelet determinations (UL002). Linearity combined with independently verified and documented calibration is used to establish the range of lowest patient values that can be accurately reported. CBC-LINE Ultra Low/Ultra Low Plus RBC kits have 105-day closed vial stability with an immediate use for open vial stability.

# PLT-LINE

Contains pre-diluted platelet levels. Kits are customized to the reportable range capabilities of the hematology analyzers to provide a kit best suited to your needs. When PLT-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

# **RET-LINE**

Contains a series of reticulocyte concentrations to test your hematology analyzer's ability to accurately recover reticulocyte counts across a range of values. Each kit includes one Instrument Evaluation Report at no extra charge.

# Products for ESR

	SEDRite Plus	SEDRite III
Diesse - Mini-Ves™, Ves-Matic™ 10/Easy , Ves-Matic 20	1	
Excyte™ 10/M	1	
Excyte™ 40	1	
Polymedco - Sedimat® 15		1
STARRSED	1	
Westergren, saline diluted	1	
Westergren, sodium citrate diluted	1	
Westergren, undiluted	1	
Wintrobe	1	

KEY ✓ = Assay Values are available for each instrument.

# SEDRite Plus Whole Blood Erythrocyte Sedimentation (ESR) Control

SEDRite Plus is a bi-level control formulated to provide values in the clinically normal and elevated ranges, and is designed to monitor erythrocyte sedimentation rate (ESR) values obtained from manual and automated ESR methods. SEDRite Plus is an excellent control for the ESR tests because the control cells rouleaux in the same manner as fresh whole blood cells. Therefore, this product can be used to monitor the factors that cause variability in ESR results, such as technique, time, temperature, and tube position. SEDRite Plus has 195-day closed vial stability with 30-day open vial stability.

	CATALOG #	DESCRIPTION
Vials	SR002	8 x 9.0 mL (4 each: Level 1, 2)
	SR002X	4 x 9.0 mL (2 each: Level 1, 2)
Tubes	SR003	12 x 4.5 mL (6 each: Level 1, 2)

# SEDRite III Whole Blood Erythrocyte Sedimentation (ESR) Control

SEDRite III is a bi-level control designed specifically for the Sedimat 15 analyzer. It is formulated to provide values in the clinically normal and elevated ranges. SEDRite III is an excellent control for the ESR tests because the control cells rouleaux in the same manner as fresh whole blood cells. SEDRite III has 195-day closed vial stability with 30-day open vial stability.

CATALOG # DESCRIPTION		DESCRIPTION
Vials	SED004	8 x 9.0 mL (4 each: Level 1, 2)
	SED002	4 x 9.0 mL (2 each: Level 1, 2)

# Products for HemoCue

	CBC-7	CBC-7 HemoCue Kit	HC WBC	HGB Extended Control	R&D Glu/Hgb	CBC-LINE for HemoCue
HemoCue® Hb 201+	1	✓R		1	1	✓*
HemoCue B-Glucose, Glucose 201					1	
HemoCue WBC			1			
Manual Methodologies	1	1				

KEY 🗸 = Assay Values are available for each instrument. 🗸 R = Recommended product for instrument (if assay values are available on >1 product).

 $\checkmark$  = Please call or check our website for catalog number best suited for your analyzer.

#### **CBC-7[®] Whole Blood Control**

CBC-7 is a tri-level control used for manual, semi-automated, and automated instruments capable of measuring up to seven parameters. CBC-7 has 105-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Vials	72001	10 x 2 mL (Normal)
	72002	10 x 2 mL (5 Low, 5 High)
	72003	12 x 2 mL (4 Low, 4 Normal, 4 High)
	72004	6 x 2 mL (2 Low, 2 Normal, 2 High)

#### CBC-7 HemoCue Kit Whole Blood Hemoglobin Control

CBC-7 HemoCue is a tri-level control used to monitor hemoglobin values obtained from the HemoCue hemoglobin photometer. CBC-7 HemoCue has 105-day closed vial stability with 30-day open vial stability stored at room temperature.

CATALOG #	DESCRIPTION
HC722	14 x 2 mL (7 Low, 7 Normal)
HC723	21 x 2 mL (7 Low, 7 Normal, 7 High)
HC724	6 x 2 mL (2 Low, 2 Normal, 2 High)
HC725	7 x 2 mL (Low)
HC727	7 x 2 mL (High)
HC728	9 x 2 mL (3 Low, 3 Normal, 3 High)
HC729	14 x 2 mL (7 Low, 7 High)
	HC722 HC723 HC724 HC725 HC727 HC728

### **HC WBC Whole Blood Control**

HC WBC is a tri-level control used to monitor values obtained from a HemoCue WBC system. HC WBC has 105-day closed vial stability with 30 day open vial stability and is provided in 1.5 mL plastic dropper vials.

	CATALOG #	DESCRIPTION
Plastic Dropper Vials	WBCOOS	3 x 2.0 mL (1 each: Level 1, 2, 3)

#### **HGB Extended Control**

HGB Extended Control is an assayed control designed to monitor values obtained from the HemoCue Hemoglobin Photometer. HGB Extended Control has 375-day closed vial stability with 30-day open vial stability at 15-30 °C (59-86 °F) or 2-8 °C (35-46 °F).

	CATALOG #	DESCRIPTION
Vials	HGB722	12 x 2 mL (6 Low, 6 Normal)
	HGB729	12 x 2 mL (6 Low, 6 High)
	HGB723	18 x 2 mL (6 Low, 6 Normal, 6 High)
	HGB724	6 x 2 mL (2 Low, 2 Normal, 2 High)
	HGB725	6 x 2 mL (Low)
	HGB727	6 x 2 mL (High)

### **R&D Glu/Hgb Whole Blood Control**

R&D Glu/Hgb is a tri-level control used to monitor the precision and accuracy of HemoCue B-Glucose, Glucose 201, and Hb 201+ analyzers. The three levels of control are designed to provide values in the abnormal low, normal, and abnormal high ranges. Because the control contains erythrocytes, the total test process is verified, including the lysing reagent. R&D Glu/Hgb has 105-day closed vial stability with 30-day open vial stability at 15 - 30 °C (59 - 86 °F) or at 2 - 8 °C (35 - 46 °F), and is provided in 1.5 mL plastic dropper vials.

	CATALOG #	DESCRIPTION
Plastic Dropper Vials	GHOOL	6 x 1.5 mL (Low)
	GHOON	6 x 1.5 mL (Normal)
	GHOOH	6 x 1.5 mL (High)
	GHOOLX	3 x 1.5 mL (Low)
	GHOONX	3 x 1.5 mL (Normal)
	GHOOHX	3 x 1.5 mL (High)
	GH00S	3 x 1.5 mL (1 Low, 1 Normal, 1 High)

#### **CBC-LINE for HemoCue**

Contains whole blood pre-diluted Hgb levels appropriate for use in instrument calibration verification. Kits are customized to the reportable range capabilities of B-Hemoglobin and Hb 201+ analyzers. Each kit includes one Instrument Evaluation Report at no extra charge.

# **Products for Manual Methodologies**

# CBC-3K Whole Blood Control (Five-Part WBC Differential)

CBC-3K is a tri-level control for monitoring Abbott CELL-DYN instruments. Manual values are also provided for Coulter Counter Z series, cyanmethemoglobin method, centrifuged microhematocrit, and hemocytometer WBC and platelet counts. CBC-3K has 75-day closed vial stability with 8-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	3K302	10 x 3 mL (5 Low, 5 High)
	3K303	12 x 3 mL (4 Low, 4 Normal, 4 High)
	3K303X	6 x 3 mL (2 Low, 2 Normal, 2 High)

#### **CBC-7[®] Whole Blood Control**

CBC-7 is a tri-level control used for manual, semi-automated, and automated instruments capable of measuring up to seven parameters. Manual values are supplied for a Coulter hemoglobinometer and Z series, cyanmethemoglobin method, centrifuged microhematocrit, and calculated MCV using centrifuged microhematocrit. CBC-7 has 105-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Vials	72001	10 x 2 mL (Normal)
	72002	10 x 2 mL (5 Low, 5 High)
	72003	12 x 2 mL (4 Low, 4 Normal, 4 High)
	72004	6 x 2 mL (2 Low, 2 Normal, 2 High)

### CBC-7[®] HemoCue Kit Whole Blood Hemoglobin Control

CBC-7 HemoCue is a tri-level control used to monitor hemoglobin values obtained from the HemoCue hemoglobin photometer as well as centrifuged microhematocrit. CBC-7 HemoCue has 105-day closed vial stability with 30-day open vial stability stored at room temperature.

	CATALOG #	DESCRIPTION
Vials	HC722	14 x 2 mL (7 Low, 7 Normal)
	HC723	21 x 2 mL (7 Low, 7 Normal, 7 High)
	HC724	6 x 2 mL (2 Low, 2 Normal, 2 High)
	HC725	7 x 2 mL (Low)
	HC727	7 x 2 mL (High)
	HC728	9 x 2 mL (3 Low, 3 Normal, 3 High)
	HC729	14 x 2 mL (7 Low, 7 High)

### **R&D LeukoReduced RBC Control**

LeukoReduced RBC Control is a bi-level control product to monitor flow cytometer and Nageotte Chamber methods for quantification of residual leukocytes in leukoreduced red blood cell products. The WBC target values for the levels are as follows: Level 1: 2.0  $\mu$ L; Level 2: 20.0  $\mu$ L. LeukoReduced RBC has a closed vial stability of 75 days with an open vial stability of 30 days or 21 thermal cycles.

	CATALOG #	DESCRIPTION
Tubes	LRR001	2 x 3 mL (1 each: Level 1, 2)

#### R&D LeukoReduced PLT Control

LeukoReduced PLT Control is a bi-level control product to monitor flow cytometer and Nageotte Chamber methods for quantification of residual leukocytes in leukoreduced platelet products. The WBC target values for the levels are Level 1: 2.0  $\mu$ L; Level 2: 20.0  $\mu$ L. LeukoReduced PLT has a closed vial stability of 75 days with an open vial stability of 30 days or 21 thermal cycles.

	CATALOG #	DESCRIPTION
Tubes	LRP001	2 x 3 mL (1 each: Level 1, 2)

#### **R&D LeukoReduced RBC/PLT Control**

LeukoReduced RBC/PLT Control is a bi-level control product to monitor flow cytometer and Nageotte Chamber methods for quantification of residual leukocytes in leukoreduced red blood cell and platelet products. The WBC target values for the levels are Level 1: 2.0  $\mu$ L; Level 2: 20.0  $\mu$ L. LeukoReduced RBC/PLT has a closed vial stability of 75 days with an open vial stability of 30 days or 21 thermal cycles.

	CATALOG #	DESCRIPTION
Tubes	LRC001	4 x 3 mL (RBC & PLT - 1 each: Level 1, 2)

# **FETALtrol[™]**

FETALtrol is a tri-level control product used for the assessment of fetomaternal hemorrhage. FETALtrol can be used to control both flow cytometry assays and manual stains (KB) for the detection of RBCs containing HbF or Rho (D antigen). FETALtrol has a closed vial stability of 105 days with an open vial stability of 25 thermal cycles.

	CATALOG #	DESCRIPTION
Vials	FH101	6 x 2 mL (2 each: Level 1, 2, 3)
	FH102	3 x 2 mL (1 each: Level 1, 2, 3)

# **Products for Manual Methodologies**

### **HCT Extended**

HCT Extended is an assayed bi-level control designed to monitor values obtained from automated, semi-automated and manual methods. HCT Extended has a 75-day closed vial stability with 21-day open vial stability.

	CATALOG #	DESCRIPTION			
Tubes	HCT004	4 x 3 mL (2 Abnormal I, 2 Abnormal II)			

### **R&D 4K Retic Whole Blood Reticulocyte Control**

R&D 4K Retic is a bi-level whole blood reticulocyte control for the Abbott CELL-DYN SAPPHIRE hematology analyzers, and for manual reticulocytes. The target values for the levels are Level 1: 1.0 %; Level 2: 10.0 %. R&D 4K Retic has 75-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	4R001	4 x 3 mL (2 each: Level 1, 2)
	4R002	10 x 3 mL (5 each: Level 1, 2)

### **R&D Retic Whole Blood Reticulocyte Control**

R&D Retic is a tri-level whole blood reticulocyte control for manual counting methods. Assay values are provided for the manual method and manual with Miller ocular. The target values for the levels are Level 1: 1.0 %; Level 2: 5.0 %; Level 3: 10.0 %. R&D Retic has 75-day closed vial stability with 21-day open vial stability.

	CATALOG #	DESCRIPTION	
Vials	RE003	9 x 1.5 mL (3 each: Level 1, 2, 3)	
	RE003X	3 x 1.5 mL (1 each: Level 1, 2, 3)	

# **R&D Retic-I Whole Blood Reticulocyte Control**

R&D Retic-I is a tri-level whole blood reticulocyte control for manual and automated counting methods. Manual assay values are provided for the manual method and manual with Miller ocular. The target values for the levels are Level 1: 1.0 %; Level 2: 5.0 %; Level 3: 10.0 %. R&D Retic-I has 75-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Vials	RI001	9 x 1.5 mL (3 each: Level 1, 2, 3)
	RI005	3 x 1.5 mL (1 each: Level 1, 2, 3)
Tubes	RI003	9 x 3 mL (3 each: Level 1, 2, 3)
	RI004	3 x 3 mL (1 each: Level 1, 2, 3)

# **R&D Body Fluid**

R&D Body Fluid is a bi-level control used to monitor total cell counts performed manually using a hemocytometer. The two levels of this control are designed to monitor values in the normal and abnormal ranges. This product contains mammalian erythrocytes and leukocytes in a plasma like fluid. R&D Body Fluid Control has 105-day closed vial stability with open vial stability of 90 days (31 thermal cycles).

	CATALOG #	DESCRIPTION
Vials	BF001	2 x 2 mL (1 each: Level 1, 2)
	BF002	4 x 2 mL (2 each: Level 1, 2)

# Sickle QC Whole Blood Control

Sickle QC is a positive and negative control for solubility tests used to detect Hemoglobin S. Sickle QC control is compatible with the following sickle cell tests: Chembio Diagnostic System Sickle-STAT, Columbia Calibre[®] Sickle Cell Reagent, Dade[®] Behring Sickle Sol[™] Solubility Test, Ortho/Johnson SICKLEDEX[®], Pacific Hemostasis SickleScreen[®] Sickling Hemoglobin Screening Kit, and Streck Sickle-Chex Solubility Kit. Sickle QC has 195-day closed vial stability with 100-day open vial stability.

	CATALOG #	DESCRIPTION
Vials	SQC001	2 x 2.5 mL (1 each: Level 1, 2)
	SQC002	4 x 2.5 mL (2 each: Level 1, 2)

# SEDRite Plus Whole Blood Erythrocyte Sedimentation (ESR) Control

SEDRite Plus is a bi-level control formulated to provide values in the clinically normal and elevated ranges, and is designed to monitor erythrocyte sedimentation rate (ESR) values obtained from manual and automated ESR methods. Manual values are supplied for Westergren and Wintrobe. SEDRite Plus is an excellent control for the ESR tests because the control cells rouleaux in the same manner as fresh whole blood cells. Therefore, this product can be used to monitor the factors that cause variability in ESR results, such as technique, time, temperature, and tube position. SEDRite Plus has 195-day closed vial stability with 30-day open vial stability.

	CATALOG #	DESCRIPTION
Vials	SR002	8 x 9.0 mL (4 each: Level 1, 2)
	SR002X	4 x 9.0 mL (2 each: Level 1, 2)
Tubes	SR003	12 x 4.5 mL (6 each: Level 1, 2)

# SEDRite III Whole Blood Erythrocyte Sedimentation (ESR) Control

SEDRite III is a bi-level control designed specifically for the Sedimat 15 analyzer. It is formulated to provide values in the clinically normal and elevated ranges. SEDRite III is an excellent control for the ESR tests because the control cells rouleaux in the same manner as fresh whole blood cells. SEDRite III has 195-day closed vial stability with 30-day open vial stability.

	CATALOG #	DESCR IPTION
Vials	SED004	8 x 9.0 mL (4 each: Level 1, 2)
	SED002	4 x 9.0 mL (2 each: Level 1, 2)

# **Products for Mindray**

	CBC5DMR OUT of US	CBC-3D OUT of US	CBC-3D IN US	CBC-3D IN US Vet	CBC-CAL PLUS OUT of US	CBC-CAL PLUS IN US	CBC-CAL PLUS IN US Vet	Body Fluid-l	CBC-LINE	CBC-LINE Ultra Low	CBC-LINE Ultra Low Plus RBC	PLT-LINE
BC-5800	1				1				√*	√*	√*	∕*
BC-5600	1				1				√*	∕*	∕*	∕*
BC-5500	1				1				√*	√*	√*	∕*
BC-5200	1				1				√*	∕*	√*	∕*
BC-5380	1				1				√*	√*	√*	∕*
BC-5300/5300Vet	1				1		1		√*	∕*	∕*	∕*
BC-5100/5100 Vet	1				1		1		√*	√*	√*	∕*
BC-5000/5000Vet	1	1			1				√*	√*	√*	∕*
BC-5150	1	1			1				√*	∕*	∕*	∕*
BC-5180	1				1				√*	√*	√*	∕*
BC-3000 PLUS		1			1				√*	√*	√*	∕*
BC-3200		1	1		1	1			∕*	√*	∕*	∕*
BC-2900		1			1				∕*	√*	∕*	∕*
BC-1800		1			1				√*	∕*	√*	∕*
BC-3000CT		1			1				√*	√*	√*	∕*
BC-2800/2800Vet		1		1	1		1		∕*	√*	∕*	∕*
BC-2600/2600Vet		1		1	1		1		√*	√*	√*	√*
BC-3600		1	1		1	1			√*	√*	∕*	√*
BC-3300		1			1				√*	√*	∕*	√*
BC-6800								1	√*	√*	√*	√*

KEY ✓ = Assay Values are available for each instrument.

### CBC-5DMR Whole Blood Control (Five-Part WBC Differential)

CBC-5DMR is a tri-level control designed for monitoring Mindray Hematology analyzers. CBC-5DMR has 75-day closed vial stability with 14-day open vial stability.

CATALOG # DESCRIPTION

Tubes	5DMR02	6 x 3 mL (2 Low, 2 Normal, 2 High) - AVAILABLE OUT of US ONLY
	5DMR04	12 x 3 mL (4 Low, 4 Normal, 4 High) - AVAILABLE OUT of US ONLY

# CBC-3D[®] Whole Blood Control (Three-Part WBC Differential)

CBC-3D is a tri-level control designed for monitoring Mindray Hematology analyzers. CBC-3D has 105-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	3D506	6 x 3 mL (2 Low, 2 Normal, 2 High) - AVAILABLE OUT of US ONLY
	3D506US	6 x 3 mL (2 Low, 2 Normal, 2 High) - AVAILABLE IN US ONLY
	3D506VETUS	6 x 3 mL (2 Low, 2 Normal, 2 High) - VET ONLY

#### **CBC-CAL PLUS Whole Blood Calibrator**

CBC-CAL PLUS is designed for calibration of Hematology analyzers. CBC-CAL PLUS has 45-day closed vial stability with 7-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	8CP13	2 x 3 mL - AVAILABLE OUT of US ONLY
	8CP13US	2 x 3 mL - AVAILABLE IN US ONLY
	8CP13VETUS	2 x 3 mL - VET ONLY

#### **Body Fluid-I**

Body Fluid-I is an assayed hematology control intended to monitor the reliability of the Mindray BC-6800 instrument that quantitatively measure red and white blood cell counts in cerebrospinal fluids, serous fluids, and synovial fluids. R&D Body Fluid-I has a 75-day closed vial stability with 30day open vial stability.

	CATALOG #	DESCRIPTION
Vials	BFI001	3 x 3 mL (1 each: Level 1, 2, 3)
	BFI002	6 x 3 mL (2 each: Level 1, 2, 3)

# **Products for Mindray**

### **CBC-LINE**

Contains pre-diluted WBC, RBC/Hgb, and Plt levels. Kits are customized to the reportable range capabilities of all major hematology analyzers to provide a kit best suited to your needs. When CBC-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

### CBC-LINE Ultra Low/Ultra Low Plus RBC

CBC-LINE Ultra Low/Ultra Low Plus RBC Range Linearity Kits are prediluted samples that provide a means of measuring a hematology instrument's performance and reportable range at the very low end of the linearity range for white blood cell and platelet parameters (UL001) or white blood cell, red blood cell, and platelet determinations (UL002). Linearity combined with independently verified and documented calibration is used to establish the range of lowest patient values that can be accurately reported. CBC-LINE Ultra Low/Ultra Low Plus RBC kits have 105-day closed vial stability with an immediate use for open vial stability.

#### **PLT-LINE**

Contains pre-diluted platelet levels. Kits are customized to the reportable range capabilities of the hematology analyzers to provide a kit best suited to your needs. When PLT-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

# **Products for Siemens Healthineers**

	CBC-Tech	PLATELET- TROL Extended	R&D ADVIA Retic Plus	CBC-LINE	CBC-LINE Ultra Low	CBC-LINE Ultra Low Plus RBC	PLT-LINE	RET-LINE B	Tech-Cal
ADVIA® 60	1			∕*	∕*	∕*			1
ADVIA 70				∕*	<b>/</b> *	∕*	√*		
ADVIA 120/2120/2120i	1	1	1	∕*	∕*		∕*	1	1

KEY 🖌 = Assay Values are available for each instrument. 🖌 * = Please call or check our website for catalog number best suited for your analyzer.

#### **CBC-Tech Whole Blood Control (Five-Part WBC Differential)**

CBC-Tech is a tri-level control designed specifically for the Bayer ADVIA 120, ADVIA 2120, 2120i and ADVIA 60. The ADVIA 120 and ADVIA 2120 have a bar-coded assay table that includes values for 20 parameters. CBC-Tech is bar-coded for correct QC file access. CBC-Tech has 75-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	CT001	10 x 3.5 mL (Normal)
	CT002	10 x 3.5 mL (5 Low, 5 High)
	CT003	12 x 3.5 mL (4 Low, 4 Normal, 4 High)
	CT003X	6 x 3.5 mL (2 Low, 2 Normal, 2 High)

### PLATELET-TROL® Extended Platelet Control

PLATELET-TROL Extended is a multi-level control designed specifically for monitoring the elevated platelet ranges of hematology analyzers. PLATE-LET-TROL Extended has 75-day closed vial stability with 14-day open vial stability. Kit requires high speed vortexer.

	CATALOG #	INSTRUMENT	DESCRIPTION
Tubes	PTE006	Bayer ADVIA 120	12 x 3 mL (4 each: Level 3, 5, 6)*
*Approxi	mate Plt values	(units in 10 ³ /mL):	
Level 3:	1000	Level 5: 2000	Level 6: 3000

### **R&D ADVIA Retic Plus Whole Blood Reticulocyte Control**

R&D ADVIA Retic Plus is a tri-level whole blood reticulocyte control for the ADVIA 120, 2120, and 2120i hematology analyzer. The bar-coded assay table provides values for Retic %, Retic RBC, MCVg, MCVr, CHCMg, CHCMr, CHg, and CHr. The target values for the levels are Level 1: 1.5 %; Level 2: 5.0 %; Level 3: 9.0 %. R&D ADVIA Retic Plus is bar-coded for correct QC file access. R&D ADVIA Retic Plus has 75-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION	
Tubes	RA003	6 x 4 mL (2 each: Level 1, 2, 3)	

#### **Tech-Cal Whole Blood Calibrator**

Tech-Cal is designed for calibration of ADVIA 120, 2120, 2120i, and ADVIA 60 instruments. The ADVIA 120 and 2120 have a barcoded assay table which includes values for WBCB, WBCP, RBC, Hgb, MCV, CHCM %, Plt, NEUTx %, and NEUTy %. Tech-Cal is barcoded for correct QC file access. Tech-Cal calibrator has 45-day closed vial with 5-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	TCV11	2 x 3.5 mL

#### **CBC-LINE**

Contains pre-diluted WBC, RBC/Hgb, and Plt levels. Kits are customized to the reportable range capabilities of all major hematology analyzers to provide a kit best suited to your needs. When CBC-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

#### **CBC-LINE Ultra Low**

CBC-LINE Ultra Low Range Linearity Kits are pre-diluted samples that provide a means of measuring a hematology instrument's performance and reportable range at the very low end of the linearity range for white blood cell and platelet parameters (UL001). Linearity combined with independently verified and documented calibration is used to establish the range of lowest patient values that can be accurately reported. CBC-LINE Ultra Low Kits have 105-day closed vial stability with an immediate use for open vial stability.

#### PLT-LINE

Contains pre-diluted platelet levels. Kits are customized to the reportable range capabilities of the hematology analyzers to provide a kit best suited to your needs. When PLT-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

#### **RET-LINE**

Contains a series of reticulocyte concentrations to test your hematology analyzer's ability to accurately recover reticulocyte counts across a range of values. Each kit includes one Instrument Evaluation Report at no extra charge.

# **Products for Sysmex**

	CBC-X	CBC-ST Plus	Body Fluid-l	HCT Extended	PLATELET- TROL Extended	XERet Control	CBC-LINE	CBC-LINE Ultra Low	CBC-LINE Ultra Low Plus RBC	PLT-LINE	RET-LINE	NEK-CAL
K-1000, K-800, K-1000/KCP-1, K-4500							∕*	∕*	∕*			
KX-21, KX-21N		1					∕*	∕*	<b>√</b> *			1
SF-3000							∕*	∕*	∕*			
XE-5000	1					1	∕*	∕*	∕*			
XE-2100™	1			1	1	1	✓*	∕*	<b>√</b> *	<b>/</b> *	1	1
XE-2100D				1	1		✓*		√*			1
XN-Series	1		1			1			<b>√</b> *			
XT-4000i	1		1			1	✓*	∕*	<b>√</b> *	√*	1	1
XT-2000i™	1					1	✓*	∕*	<b>√</b> *	<b>√</b> *	1	
XT-1800i™	1						✓*	∕*	<b>√</b> *	✓*		
XS-1000i	1						✓*		<b>√</b> *			
Manual Methodologies/ Semi-automated				1								

KEY 🗸 = Assay Values are available for each instrument. 🖌 * = Please call or check our website for catalog number best suited for your analyzer.

#### CBC-X Whole Blood Control (Five-Part WBC Differential)

CBC-X is a tri-level control designed specifically for the Sysmex XE-5000, XE-2100, XT-4000i, XT-2000i, XN-Series, XT-1800i, and XS-1000i hematology analyzers. Assay tables include values for 27 parameters including nRBC's. CBC-X is bar-coded for correct QC file access. CBC-X has 75-day closed vial stability with an open vial stability of 15 samples within 15 days.

	CATALOG #	DESCRIPTION
Tubes	X003	12 x 4.5 mL (4 Low, 4 Normal, 4 High)
	X003X	6 x 4.5 mL (2 Low, 2 Normal, 2 High)
	X002	10 x 4.5 mL (5 Normal, 5 High)

#### CBC-ST Plus Whole Blood Control (Three-Part WBC Differential)

CBC-ST Plus is a tri-level control for monitoring the Sysmex KX-21/KX-21N analyzers. CBC-ST Plus has 105-day closed vial stability with 14-day open vial stability.

	CATALOG #	DESCRIPTION
Vials	ST001	10 x 2.5 mL (Normal)
	ST002	10 x 2.5 mL (5 Low, 5 High)
	ST003	12 x 2.5 mL (4 Low, 4 Normal, 4 High)
	ST004	6 x 2.5 mL (2 Low, 2 Normal, 2 High)
Tubes	ST207	12 x 2.5 mL (4 Low, 4 Normal, 4 High)
	ST208	6 x 2.5 mL (2 Low, 2 Normal, 2 High)
	ST405	12 x 4 mL (4 Low, 4 Normal, 4 High)
	ST406	6 x 4 mL (2 Low, 2 Normal, 2 High)

### **HCT Extended**

HCT Extended is an assayed bi-level control designed to monitor values obtained from automated, semi-automated and manual methods. HCT Extended has a 75-day closed vial stability with 21-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	HCT004	4 x 3 mL (2 Abnormal I, 2 Abnormal II)

#### PLATELET-TROL[®] Extended Platelet Control

PLATELET-TROL Extended is a multi-level control designed specifically for monitoring the elevated platelet ranges of hematology analyzers. PLATELET-TROL Extended has 75-day closed vial stability with 14-day open vial stability. Kit requires high speed vortexer.

	CATALOG #	INSTRUMENT	DESCRIPTION				
Tubes	PTE006	Sysmex XE-2100	12 x 3 mL (4 each: Level 3, 5, 6)*				
*Approxi	imate Plt values	(units in 10 ³ /mL):					
Level 3: 1000		Level 5: 2000	Level 6: 3000				

#### **XERet Control**

XERet Control is a tri-level control designed for use in monitoring reticulocytes on the Sysmex XE-5000, XE-2100, XT-4000i, XT-2000i and XN-Series hematology analyzers. XERet Control has 75-day closed vial stability with an open vial stability of 15 samples within 15 days.

	CATALOG #	DESCRIPTION
Tubes	XER003X	6 x 3 mL (2 each: Level 1, 2, 3)

# **Products for Sysmex**

#### **NEK-CAL Whole Blood Calibrator**

NEK-CAL is designed for calibration of Sysmex XE-2100, XE-2100D, XT-4000i, and KX-21/KX-21N hematology analyzers. Values are provided for WBC, RBC, Hgb, MCV, Hct, and Plt. NEK-CAL has 45-day closed vial with 5-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	NEK11	2 x 3.5 mL

#### **R&D Body Fluid-I**

R&D Body Fluid-I Control is an assayed hematology control intended to monitor the reliability of the Sysmex XT-4000i and XN-Series instruments that quantitatively measure red and white blood cell counts in cerebrospinal fluids, serious fluids, and synovial fluids. R&D Body Fluid-I has a 75-day closed vial stability with 30-day open vial stability.

	CATALOG #	DESCRIPTION
Tubes	BFI001	3 x 3.0mL (1 each: Level 1, 2, 3)
	BFI002	6 x 3.0mL (2 each: Level 1, 2, 3)

#### **CBC-LINE**

Contains pre-diluted WBC, RBC/Hgb, and Plt levels. Kits are customized to the reportable range capabilities of all major hematology analyzers to provide a kit best suited to your needs. When CBC-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

#### **CBC-LINE Ultra Low/Ultra Low Plus RBC**

CBC-LINE Ultra Low/Ultra Low Plus RBC Range Linearity Kits are pre-diluted samples that provide a means of measuring a hematology instrument's performance and reportable range at the very low end of the linearity range for white blood cell and platelet parameters (UL001), or white blood cell, red blood cell, and platelet determinations (UL002). Linearity combined with independently verified and documented calibration is used to establish the range of lowest patient values that can be accurately reported. CBC-LINE Ultra Low/Ultra Low Plus RBC kits have 105-day closed vial stability with an immediate use for open vial stability.

# PLT-LINE

Contains pre-diluted platelet levels. Kits are customized to the reportable range capabilities of the hematology analyzers to provide a kit best suited to your needs. When PLT-LINE Kits are used in combination with independently verified and documented calibration, the information can be used to establish the range of lowest and highest values that can be accurately reported by the hematology analyzer. Each kit includes one Instrument Evaluation Report at no extra charge. Kit requires high speed vortexer.

#### **RET-LINE**

Contains a series of Reticulocyte concentrations to test your hematology analyzer's ability to accurately recover reticulocyte counts across a range of values. Each kit includes one Instrument Evaluation Report at no extra charge.

# **CBC-Monitor2**

We are pleased to announce the availability of our completely online QC Program. CBC-Monitor2 includes the features of the CBC-Monitor program plus the ability to track comparison history for a full year instead if 6 months.

The program is available in English and French.

Customers may enroll in the program at anytime, without making any phone calls.

# Browse for CBC-Monitor 2 Online

Enter http://cbcmonitor2.rndsystems.com in your web browser.

- Click on New Account, and fill in the information on the My Account page.
- 2 Click on Submit. Your are now able to enroll your instrument.
- S Click on My Analyzers at the top of the page.
- **3** Select Add New Analyzer in the Analyzer dropdown field to Enroll A New Analyzer.
- S Name your analyzers for easy reference using the Analyzer Name field.
- G Choose your Analyzer model and Control name from the drop down boxes.
  - A list of parameters will appear under the instrument field.
  - Select units for each parameter to match your analyzer settings under Unit.
  - Uncheck any parameters that you do not report under Show.
- 8 Click Submit to record.

#### You may enter data as soon as the instrument is enrolled.

An email is automatically sent to CBC-Monitor so the instrument enrollment can be confirmed by CBC-Monitor staff. When the instrument has been confirmed, you will receive an email. At that time you will be able to pull up instrument reports whenever you like.

There is an **Inquiry** button under the R&D logo. Click on that to send a message to CBC-Monitor2 staff. Emails are answered Monday-Friday during business hours.

#### For assistance please call 1-800-523-3395 ext 4435 or 612-656-4435



www.cbcmonitor2.rndsystems.com

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