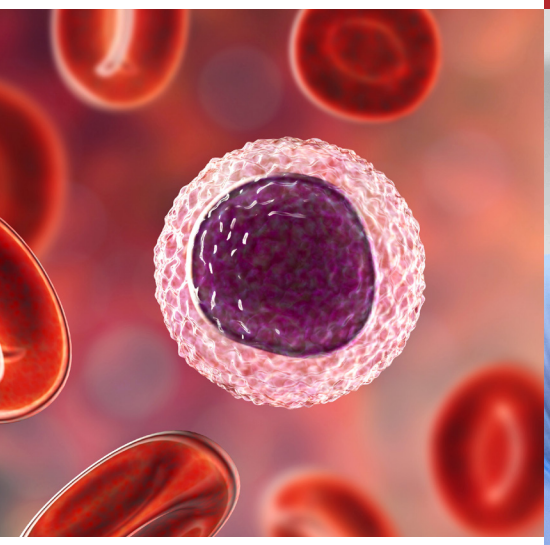
STRECK

Hematology and Linearity Controls



Streck's processes are focused on manufacturing controls that test instrument reagents and verify the accuracy of patient results.

Superior Science

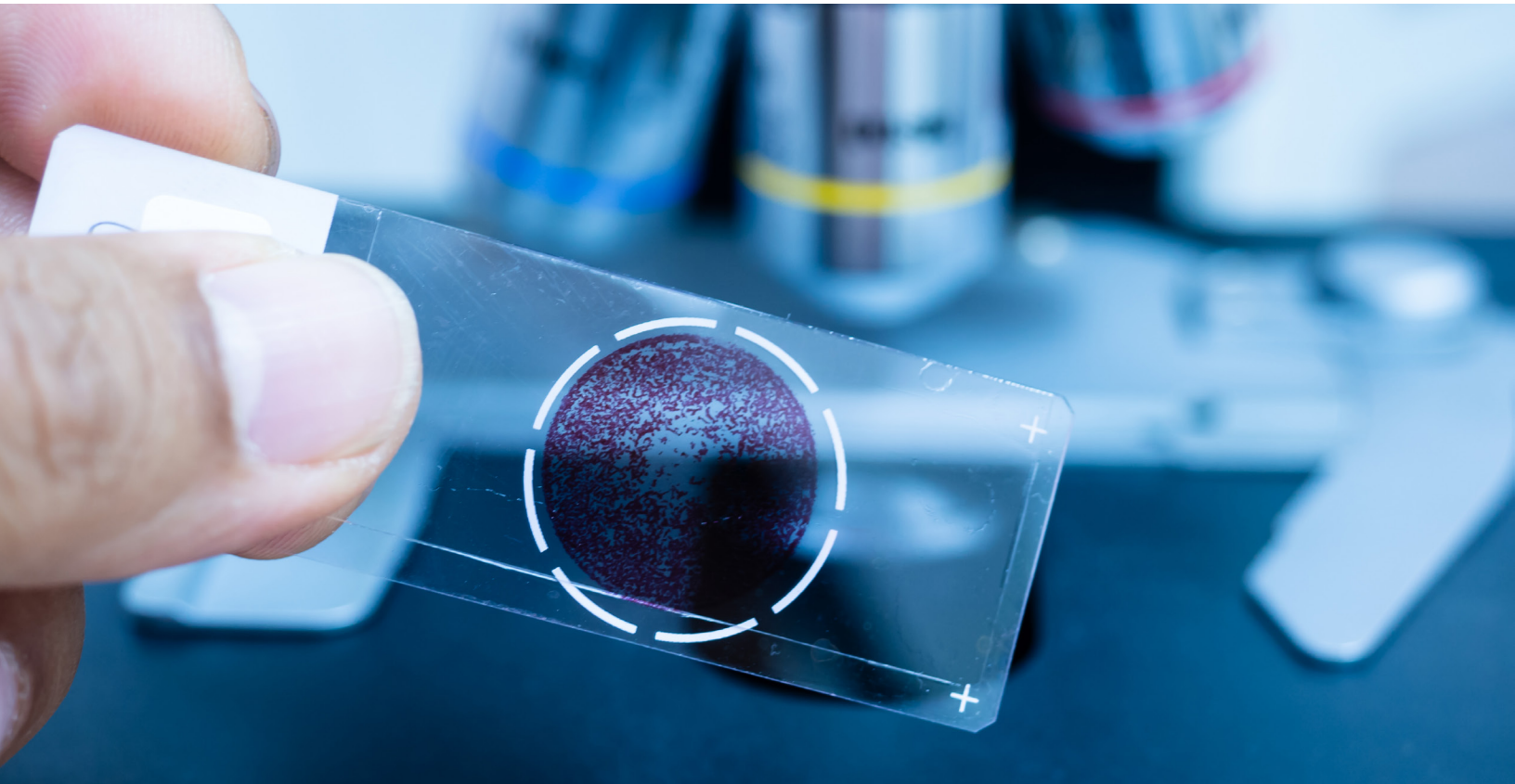
+ Utilization of actual cellular material.
  - Human and non-human cells replicate the patient sample.
+ Distinct approach to handling cells for lot-to-lot stability.
  - Consistent, reliable and reproducible results that inspire confidence.
+ Identification of compromised results for quick, accurate detection of instrument issues.
  - Reduction of downtime and repeated tests.
+ Confidence in definitive results that are trusted by clinicians.

Ease of Use

+ Controls for your hematology needs including:
  - 3-part differential.
  - 5-part differential and reticulocytes.
  - Glucose and hemoglobin.
  - Calibration.
+ Formulated and available for over 20 different types of hematology instruments.

Comprehensive Support

+ Technical Support team consists of Medical Laboratory Scientists, to assist with product questions.
+ Dedicated Sales and Customer Care team available at 800.228.6090.
+ Streck *STATS*-Link® program is an effective way to evaluate the results of your lab versus a peer group.



Hematology Controls Parameters

Parameters		HQ-Chex	Para 4®	Para 12® Extend	Para 12® Plus	Retic-Chex® II	STaK-Chex® Plus Retics
White Blood Cell	WBC			•	•		•
WBC Optical Count	WBC (WOC)				•		
WBC Nuclear Optical Count	WBC (NOC)				•		
Neutrophils	NEUT				•		•
-	NEUT %				•		•
Lymphocyte	LYM			•	•		•
-	LYM %			•	•		•
Combined value of WBC not classified as lymphocytes or granulocytes	MID			•			
-	MID %			•			
Granulocytes	GRAN			•			
-	GRAN %			•			
Monocytes	MONO				•		•
-	MONO %				•		•
Eosinophils	EOS				•		•
-	EOS %				•		•
Basophils	BASO				•		•
-	BASO %				•		•
Red Blood Cells	RBC			•	•		•
Nucleated Red Blood Cells	NRBC						•
-	NRBC %						•
Hemoglobin	HGB	•	•	•	•		•
-	[HGB]		•	•	•		•
Hematocrit	HCT		•		•		
-	[HCT]		•	•	•		•
-	HCT %						•
Mean Cell Volume - average size of RBC	MCV			•	•		•
Mean Cell - average amount of Hemoglobin in an average RBC	MCH			•	•		•
Mean Cell Hemoglobin Concentration	MCHC			•	•		•
-	[MCHC]			•	•		•
Red Cell Distribution Width	RDW			•	•		
-	RDW %						•
Low-Standard Deviation	RDW - SD						•
Platelet	PLT		•	•	•		•
Mean Platelet Volume	MPV			•	•		•
-	Pct %						
Platelet Distribution Width	PDW			•			
Glucose	Glucose	•					
Reticulocyte	Retic						•
-	Retic %					•	•
-	Manual Retic %					•	
-	Miller Ocular Retic %					•	
Immature Reticulocyte Fraction	IRF						•

Hematology Controls

IVD

HQ-Chex

A glucose and hemoglobin control specially formulated to evaluate the accuracy and precision of select HemoCue® analyzers.

+ Manufactured with human red blood cells to perform like patient samples.
+ Packaged in plastic squeeze dropper vials.
+ Available in three clinically significant levels.
+ 30-day open-vial stability; 180-day closed-vial stability.

CE IVD

Para 4®

A hematology control for laboratories that perform a limited number of hematology tests utilizing manual or semi-manual methods. It is available in low, normal and high levels.

+ Packaged in plastic squeeze dropper vials and glass vial options.
+ Available in three clinically significant levels.
+ 14-day open-vial stability; 110-day closed-vial stability.

CE 2797 IVD

Para 12® Extend

A whole blood hematology control with three distinct populations of lymphocytes, mononuclears and granulocytes and provides assay values for the three-part white blood cell differential.

+ Available in three clinically significant levels.
+ Varying 3-part differential percentages test the accuracy and precision of the reported white blood cell populations.
+ Vials with pierceable caps for analyzer autosampling.
+ 30-day open-vial stability; 190-day closed-vial stability.

CE 2797 IVD

Para 12® Plus

A whole blood hematology control formulated for the five-part differential Abbott® CELL-DYN Ruby® instrument. It features vials with pierceable caps for autosampling and is available in low, normal and high levels.

+ Available in three clinically significant levels.
+ Plastic vials with pierceable caps for analyzer autosampling.
+ Compatible with the Abbott CELL-DYN five-part differential Ruby hematology analyzer.
+ 7-day open-vial stability; 75-day closed-vial stability.

Hematology Controls

IVD

Retic-Chex® II

A whole blood tri-level control manufactured with reticulocytes that replicate patient samples for accurate identification.

+ Assayed for automated and manual methods including Miller Ocular.
+ Available in 1 mL plastic squeeze dropper vials.
+ 14-day open-vial stability; 75-day closed-vial stability.

CE IVD

STaK-Chex® Plus Retics

A whole blood 5-part white cell differential control that includes reticulocytes and nucleated red blood cells. For use on Beckman Coulter® instruments.

+ The only combined control that includes all CBC parameters, reticulocytes and nucleated red blood cells which can be analyzed in a single run.
+ The assay contains automated and manual reticulocyte values in three clinically significant levels and nucleated red blood cells in one level.
+ Vials with pierceable caps for analyzer autosampling.
+ 14-day open-vial stability; 105-day closed-vial stability.

Linearity Controls

CE 2797 IVD

Cal-Chex®

A whole blood product assayed for the calibration of Beckman Coulter®, Horiba® Medical, Siemens Healthineers® and Mindray® multi-parameter hematology analyzers.

+ Value-assigned from replicate analysis on whole blood calibrated analyzers.
+ Vials with pierceable caps for analyzer autosampling.
+ 5-day open-vial stability;
  45-day closed-vial stability.

IVD

Cal-Chex® A Plus

A whole blood product manufactured for calibrating Abbott hematology analyzers.

+ Value-assigned from replicate analysis on whole blood calibrated analyzers.
+ Vials with pierceable caps for analyzer autosampling.
+ 5-day open-vial stability;
  45-day closed-vial stability.

CE IVD

CVA
CVA for CELL-DYN®

(Calibration Verification Assessment)

Assayed linearity control kits used to determine the reportable range and linear performance of 3-part and 5-part differential hematology instruments by testing the upper and lower limits.

+ Customized kits with WBC, RBC, hemoglobin and platelet ranges appropriate for each instrument model.
+ Vials with pierceable caps for analyzer autosampling.
+ 5-day open-vial stability;
  120-day closed-vial stability.

IVD

Retic-Chex® Linearity for BC

An assayed linearity control kit that can be used to verify patient reportable ranges and measure the linear performance of automated and semi-automated hematology analyzers that report the reticulocyte parameter.

+ Retic-Chex Linearity BC is assayed for Beckman Coulter® analyzers.
+ Packaged in five-vial sets.
+ Vials with pierceable caps for analyzer autosampling.
+ 5-day open-vial stability;
  105-day closed-vial stability.

Assayed Instrument List for Linearity Controls

Hematology	Cal-Chex®	Cal-Chex® A Plus	CVA/Calibration Verification Assessment**	CVA for CELL-DYN® **	Cell-Chex® Auto	HQ-Chex	Para 4®	Para 12® Plus	Para 12® Extend	Retic-Chex® Linearity for BC	STaK-Chex® Plus Retics
Abbott® Laboratories											
CELL-DYN® Emerald® 18				•							
CELL-DYN Ruby®		•		•	•			•			
CELL-DYN Sapphire®				•							
Beckman Coulter®											
A^C•T™ Series	•								•		
A^C•T diff™	•								•		
A^C•T diff2™	•								•		
A^C•T 5diff			•								
UniCel® DxH® 600			•		•					•	•
UniCel DxH® 800	•		•		•					•	•
UniCel DxH® 900										•	•
UniCel DxH® 690T										•	•
Erma											
PCE-210									•		
HemoCue®											
Hb 201+ Analyzer, B-Hemoglobin Photometer			•			•	•				
Glucose 201 Analyzer						•					
Horiba Medical											
ABX Micros 60	•		•						•		
ABX Micros ES 60	•		•						•		
HTI®											
Micro CC-20 Plus									•		
Micro CC-25 Plus								•			
Mindray®											
BC-3200									•		
BC-3600	•								•		
Nihon Kohden®											
Celltac α MEK-6400 Series									•		
Celltac α MEK-6500									•		
Separation Technology, Inc.											
HemataSTAT II®							•				
Siemens Healthineers®											
ADVIA® 120/2120/2120i					•						
ADVIA 60	•								•		
Sysmex® Corporation											
XE-2100™					•						
XE-5000™					•						
XT-1800i™					•						
XT-2000i™					•						
XT-4000i™					•						

Hematology Controls Ordering Information

Product	Description	Catalog Number
HQ-Chex	6 x 2.5 mL (Levels 1,2 & 3)	232756
	6 x 2.5 mL (Level 1)	232753
	6 x 2.5 mL (Level 2)	232754
	6 x 2.5 mL (Level 3)	232755
	6 x 2.5 mL (Levels 1 & 3)	232757
Para 4®	3 x 1.5 mL (Low, Normal, High Plastic)	215103
	6 x 1.5 mL (6 Low, Plastic)	215106
	6 x 1.5 mL (6 Normal, Plastic)	215107
	6 x 1.5 mL (6 High, Plastic)	215108
	12 x 1.5 mL (4 Low, 4 Normal, 4 High, Plastic)	215112
	6 x 1.5 mL (6 Low, Glass)	215426
	6 x 1.5 mL (6 Normal, Glass)	215416
	6 x 1.5 mL (6 High, Glass)	215436
	12 x 1.5 mL (4 Low, 4 Normal, 4 High) Glass	215412
	18 x 1.5 mL (6 Low, 6 Normal, 6 High) Glass	215418
Para 12® Extend	18 x 2.5 mL (6 Low, 6 Normal, 6 High)	218750
	18 x 4.5 mL (6 Low, 6 Normal, 6 High)	218770
	6 x 2.5 mL (6 Low)	218993
	6 x 2.5 mL (6 Normal)	218758
	6 x 2.5 mL (6 High)	218994
	6 x 4.5 mL (6 Normal)	218995
	3 x 2.5 mL (Low, Normal, High)	218755
	3 x 4.5 mL (Low, Normal, High)	218776
Para 12® Plus	4 x 3.0 mL (4 Low)	218924
	4 x 3.0 mL (4 Normal)	218914
	4 x 3.0 mL (4 High)	218934
	12 x 3.0 mL (4 Low, 4 Normal, 4 High)	218913
Retic-Chex® II	4 x 1.0 mL Retic-Chex II (Level 1)	285104
	4 x 1.0 mL Retic-Chex II (Level 2)	285204
	4 x 1.0 mL Retic-Chex II (Level 3)	285304
	6 x 1.0 mL Retic-Chex II (Level 1, 2 & 3)	285106
STaK-Chex® Plus Retics	4 x 4.5 mL (4 Low)	225480
	4 x 4.5 mL (4 Normal)	225481
	4 x 4.5 mL (4 High)	225482
	12 x 4.5 mL (12 Normal)	225483
	12 x 4.5 mL (4 Low, 4 Normal, 4 High)	225485

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See streck.com/patents for patents that may be applicable to these products.

Linearity and Calibrators Ordering Information

Product	Description	Catalog Number
Cal-Chex®	1 x 3.0 mL	221101
	3 x 3.0 mL	221103
Cal-Chex® A Plus	1 x 3.0 mL	221106
	2 x 3.0 mL	221107
	3 x 3.0 mL	221108
CVA	5 x 3.0 mL RBC/Hemoglobin	291504
	13 x 3.0 mL RBC 5, WBC 4, PLT 4	291708
	12 x 3.0 mL RBC 4, WBC 4, PLT 4	291709
	18 x 3.0 mL RBC 5, WBC 7, PLT 6	291712
CVA for CELL-DYN®	12 x 3.0 mL RBC 4, WBC 4, PLT 4	291715
	16 x 3.0 mL RBC 5, WBC 5, PLT 4	291718
Retic-Chex® Linearity for BC	5 x 3.0 mL for Beckman Counlter	285535

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