

Solutions for Clinical Flow Cytometry

Sample Prep | Reagents | Analyzers | Software



ACCELERATING
answers

 **BECKMAN
Coulter**
Life Sciences

Welcome
to the Clinical Flow Cytometry Lab



Page 22 Service & Training	Page 6 AQUIOS CL Flow Cytometer	Page 20 Kaluza C Analysis Software	Page 10 Navios EX Flow Cytometer	Page 12 CellMek SPS Sample Preparation System	Page 8 DxFLEX Flow Cytometer	Page 14 Reagents
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SYSTEMS

AQUIOS CL

DxFLEX

Navios EX

CellMek SPS

REAGENTS

Single-Color
Reagents

DURA
Innovations
Technology

ANALYSIS
SOFTWARE

Kaluza C

SERVICES

Service &
Training

We offer innovative
and tailored solutions
to the most demanding needs
of modern clinical
flow cytometry labs.

A one-size-fits-all solution for clinical flow cytometry labs could be a compromise due to two different application types labs have to cope with.

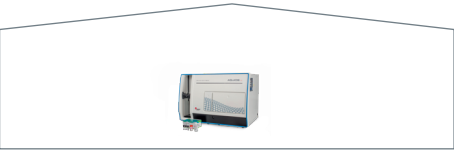
Low-complexity tests with high throughput and high-complexity tests with low throughput.

Dependent on the lab's size, assay menu and goals, we offer the option to increase the lab's efficiency with application specific technological solutions.

Low complexity
testing

High throughput

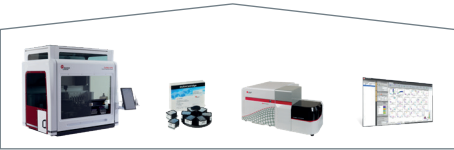
- Highly standardized
- Always the same request
- Mostly identical sample material
- Need for automation



High complexity
testing

Low throughput

- Process has to be flexible
- Varying testing menu
- Different sample materials
- Deep understanding needed



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AQUIOS CL

Load and Go Flow Cytometer

Load & Go Cytometry

- Sample loading is as easy as on a hematology analyzer
- Load primary samples, and receive results

Automation of sample preparation

- Performs the entire preparation process for you
- Simultaneous prep & run

Frees up time

- You can focus on data review and validation of results



Streamline your low-complexity assays with walk-away automation.

Instrument Setup an QC



Sampling loading, preparation & analysis

Connectivity



Bi-directional link

- System receives test requests
- Choice of broadcast or host-query
- No middleware required

User selects decision rules

- Flagged only
- Flagged + notification
- Transmit all samples*

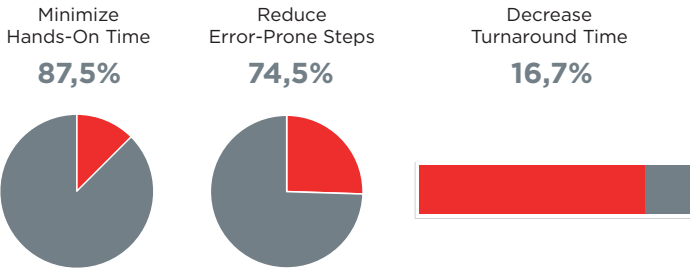
AQUIOS Reagent Kits

In Vitro Diagnostic Solutions

AQUIOS Tetra Reagents

Intuitive lymphocyte subset analysis

- Analysis of T, B, and NK lymphocytes in whole blood
- Enumeration without the need for counting beads
- Single Platform Technology

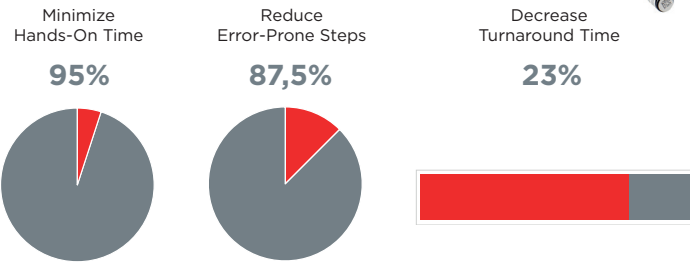
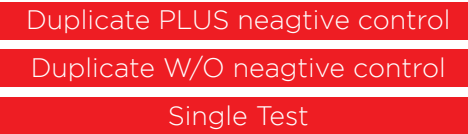


AQUIOS CL system running AQUIOS Tetra-1 was compared directly to the FC500 and TQ Prep systems, running CYTO-STAT tetraCHROME CD45-FITC/CD4-RD1/CD8-ECD/CD3-PC5 for 50 test samples.

AQUIOS STEM System

The Evolution Of The Gold Standard

- Fully automated ISHAGE-compliant stem cell analysis
- **AQUIOS STEM software** comes with 3 IVD panels to choose from:



AQUIOS STEM system was compared directly to the FC500 and Stem-Kit to run 10 test samples.

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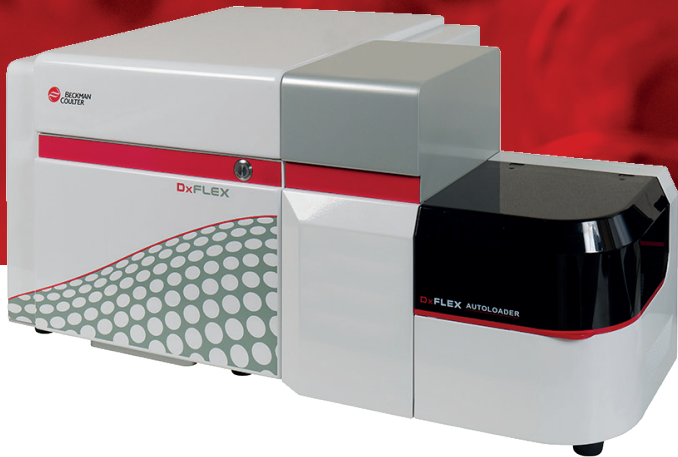
Service & Training

DxFLEX Flow Cytometer

Add More Colors Without Adding More Concerns

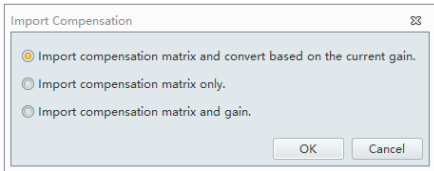
- High Complexity Testing Made Easy
- Advanced Sensitivity and Resolution
- Compact Design

- Simplified compensation procedure (gain independent compensation)
- More information per tube with up to 13 colors
- Separation of dim populations
- Easier und more robust gating
- Saves lab space
- No compressor cart



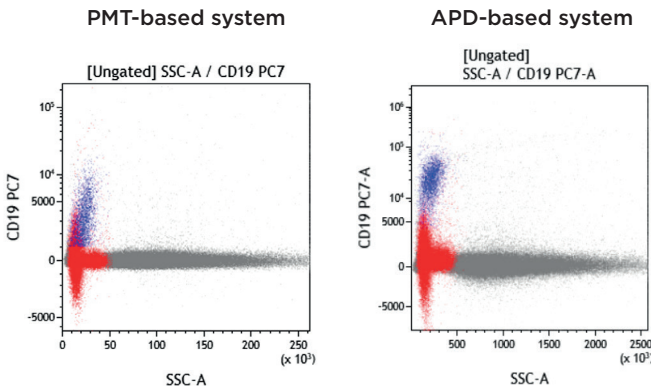
The DxFLEX flow cytometer helps you find *the needle in the haystack* with up to 25M events/file and 30K events/sec

Compensation Workflow Reimagined



A compensation matrix obtained at one gain setting can be used for tests at different gain settings in the linear range. The software automatically recalculates spillover values in real time as the gains are adjusted.

Higher sensitivity and resolution helps to be less dependent on the panel design.



DxFLEX Reagent Kits

In Vitro Diagnostic Solutions

ClearLLab 10C System

Streamlined Leukemia & Lymphoma* Analysis

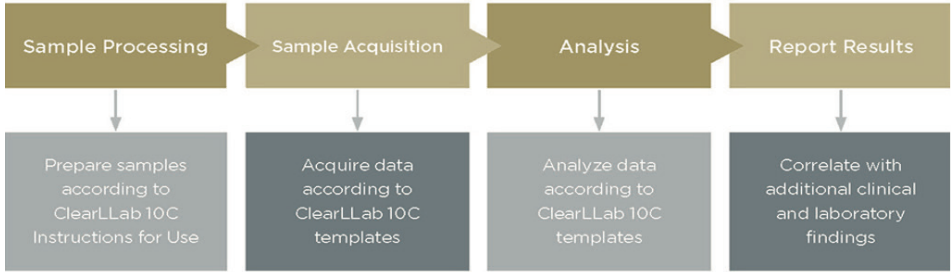
The DxFLEX flow cytometer is a 13C IVD Flow Cytometer that is validated for use with the ClearLLab 10C Reagent System

Use Our ClearLLab 10C Panels to Analyze Diseases Such As:

- Chronic Leukemia
- Myeloma
- Acute Leukemia
- Non-Hodgkin's Lymphoma
- Myeloproliferative Neoplasm
- Myelodysplastic Syndrome



Streamline And Standardize Your L&L Workflow



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Navios EX Flow Cytometer

Reliable, Accurate, Efficient

Based on proven Navios design

- Up to 10 colors and 3 lasers
- Software interface of legacy Navios instruments

Enhanced Sensitivity and Resolution

- With 20-bit resolution, the system offers >1 M channels of dynamic range
- 6 decades of resolution to distinguish a wide range of populations

IVD Assay Menu

- Lymphocyte Subset Analysis
- Leukemia & Lymphoma Analysis*



Tube management with
On-board barcode identification and sample ID tracking

Enhanced rare event analysis
with adjustable probe

Data consistency facilitated by
consistent acquisition rate and individual sample vortexing

Connectivity
Bi-directional link

- System receives test requests
- Middleware required
- (optional with Instrument Manager™)
- Test results sent to LIS

Mono-directional link

- Test results sent to LIS
- No middleware required

Navios EX Reagent Kits

In Vitro Diagnostic Solutions

Navios EX tetra System

Semi-automated TBNK Analysis

Immune Subset Analysis

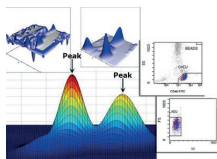
Automated lysis and cell fixation with TQ-Prep Workstation and the immunoprep reagent System. The TQ-Prep is equipped with a standard 32-tube carousel perfectly complementing the Navios EX flow cytometer.



IMMUNOPREP Reagent System



TQ-Prep Workstation



Navios EX tetra software



ClearLLab LS

Lymphoid Screen Reagent

Automated Lysis, Analysis and Reporting

- Pre-mixed, optimized 12 antibody 10 color assay
- For peripheral blood, bone marrow and lymph node specimens. EDTA, Heparin, ACD anticoagulants
- Unitized test using proven DURA Innovations dry reagent technology

PART NUMBER	405 nm EXCITATION		488 nm EXCITATION					638 nm EXCITATION		
	PB ¹	KrO ²	FITC	PE	ECD	PC5.5	PC7	APC	APC-AF700 ³	APC-AF750 ⁴
B74073	CD3	CD45	Kappa/CD8	Lambda/CD4	CD19	CD56	CD10	CD34	CD5	CD20



ClearLLab 10C System

Streamlined Leukemia & Lymphoma Analysis

Integrated Leukemia & Lymphoma* immunophenotyping solution

See Page 7



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CellMek SPS Sample Preparation System

Unlock the Power of Lean

Automation of complex methods

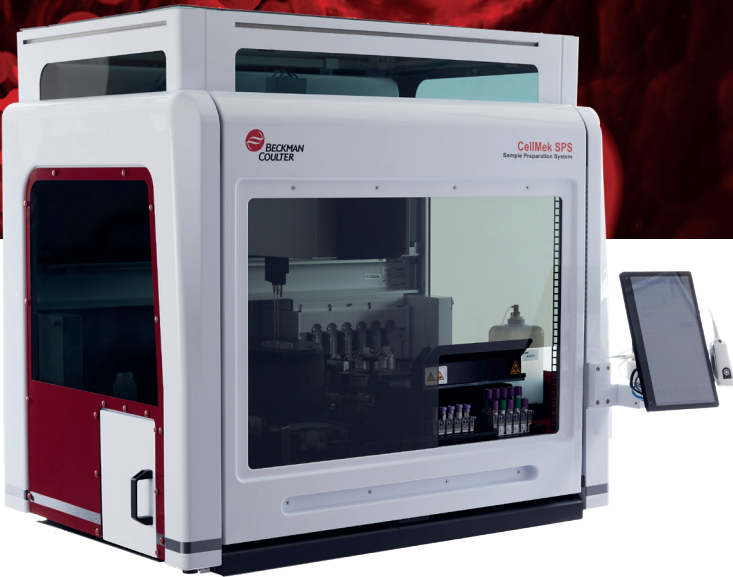
- Design your own protocols (number of steps, duration, volume)

True walk-away automation

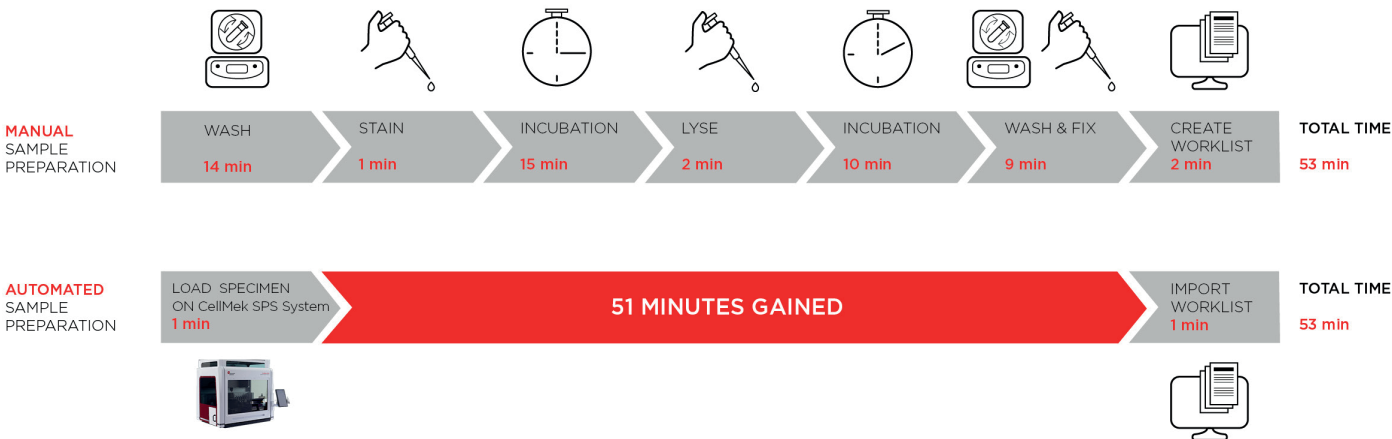
- Automated end-to-end sample preparation
- On demand processing

Frees up time

- You can focus on data review and validation of results



Automate a start-to-finish workflow from sample loading to samples ready to analyze (including cell washing, RBC lysing, antibody staining) **without user intervention!**



CellMek SPS

Features and Performance

Instrument Features

On-board refrigeration and cap piercing technology reduce daily manual handling of antibodies. The system features a refrigerated, 53-position liquid antibody carousel so reagents can remain on-board. When you place new reagents on the system, all you need to do is replace the vial cap with a pierceable one, so there is no need to cap and uncapped tubes after operation

DURACartridges – our innovative new format for automated use of dry reagents in addition to liquid antibodies, the system provides capacity of up to 12 DURACartridges (12 tests each). These panels can also be combined with liquid reagents within a protocol. All reagents are barcoded to provide automated tracking of reagents for a full audit trail.

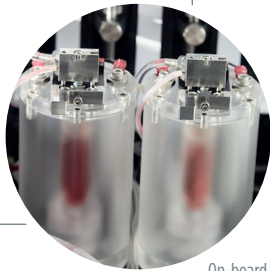
Spin Wash Chambers provide on-board washing capability. Washing steps can be freely programmed (both pre- and postwashes) and are performed on-board in two Spin Wash Chambers. This is key to an uninterrupted, truly walk-away operation.



Simplified Storage

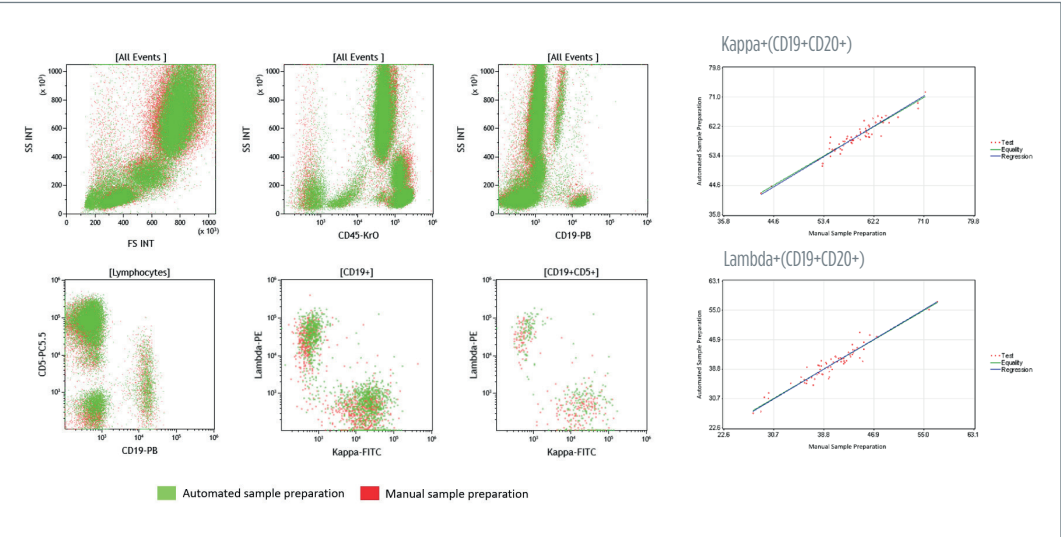


Innovative Reagent Concept



On-board Cell Wash

Performance



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Single-Color Reagents

IVD antibodies

Wide choice from a large portfolio

- >250 antibody reagents
- 12 different fluorochromes
- >70 high-performing clones

Reliability and Reproducibility

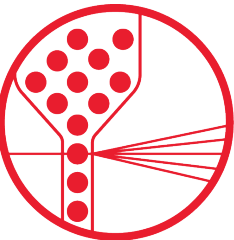
- All products manufactured under cGMP
- Lot-to-lot consistency
- Open-vial stability claims
- Proprietary tandem-dye chemistry

Trust

- >30 years of experience developing and manufacturing flow cytometry reagents

If your lab needs IVDR-compliant antibodies for flow cytometry, we're here by your side.

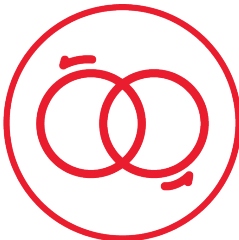
Single-Color IVD antibodies are intended to be used:



Platform independent (any flow cytometer)



For a wide range of clinical purposes



In combination with other antibodies according to their intended purpose



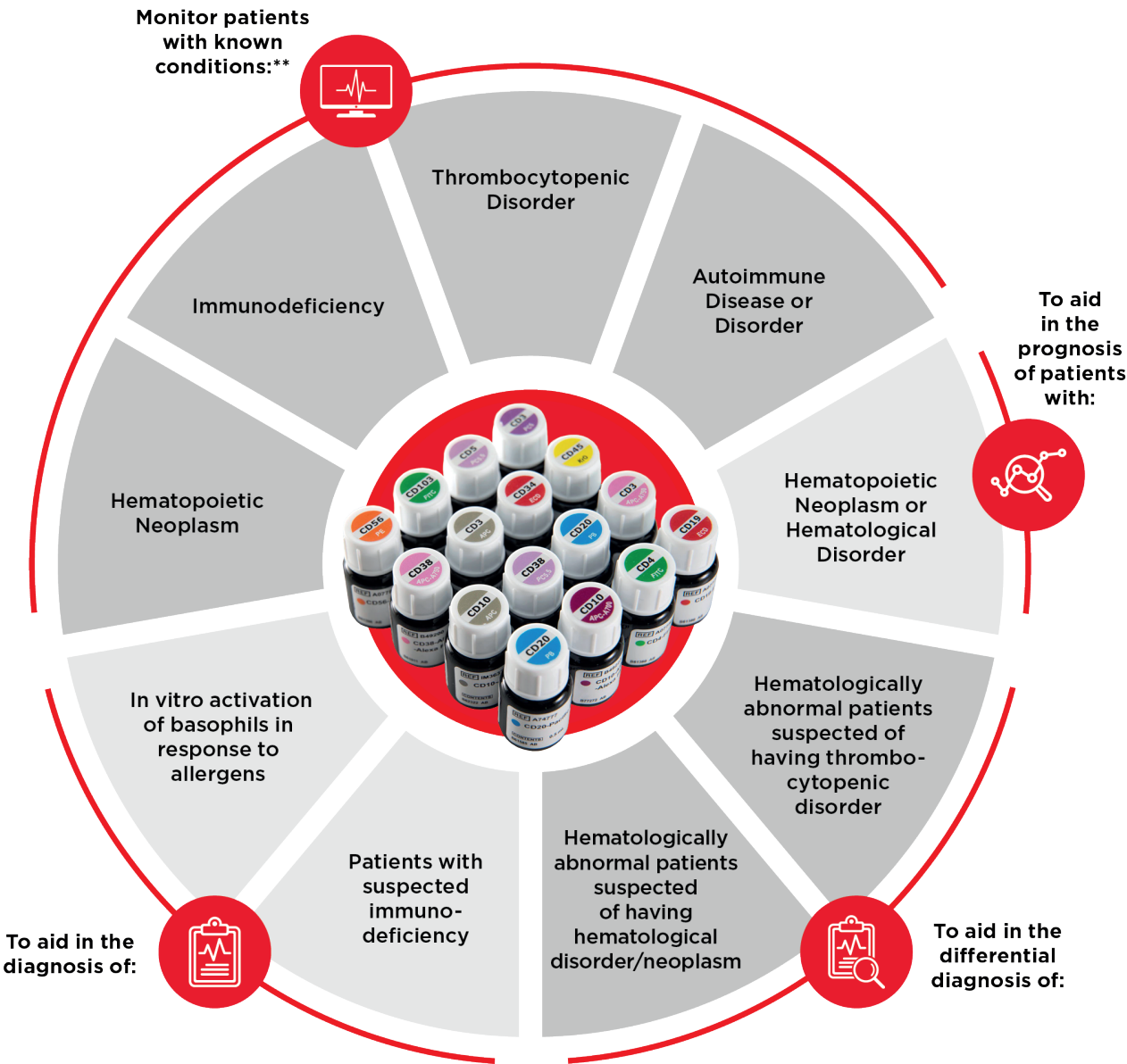
Explore over 200 IVDR-compliant single-color antibodies for flow cytometry at beckman.com



Single-Color Reagents

Features and Performance

You can use our IVDR-compliant flow cytometry antibodies for a wide range of clinical purposes.*



Download this informative wallchart Building IVDR-compliant panels for hematological disorders, based on diagnostic purpose of IVDR conjugated antibodies.



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*Single-color antibodies alone cannot and are not intended to generate any diagnostic conclusion. When used in combination with other markers, this product can be used in one or more of the mentioned functions.
 **not a comprehensive list

Single-Color Reagents

Manufactured under cGMP

BATCH
TO BATCH

LOT
TO LOT

TEST
TO TEST



Our single-color reagents deliver consistency, time after time.

Conjugated antibodies can often cause variability and unreproducible data. That's why it's vital to trust Beckman Coulter as your source for validated products. We bring over 30 years of experience to creating reagents for clinical flow cytometry, and we do so only under strict GMP conditions. With a portfolio of single-color antibodies registered in 60-plus countries, we can deliver increased assay confidence and throughput to your laboratory.

Discover quality reagents at www.beckman.com/single-color-antibodies

Single-Color Reagents

Tandem & Polymer Dyes

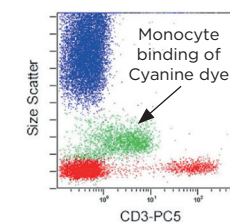
Reduced Non-Specific Staining

Formulation

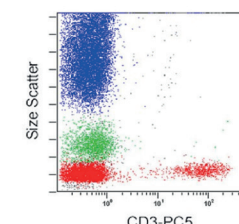
Proprietary chemistry and patented* production processes are leveraged to **optimize product performance and robustness**

Greater confidence in results, particularly when analyzing abnormal populations

Pre-Formulation



Post-Formulation



Tandem Dye Technology

Unfolding the possibilities

- High acceptor-to-donor ratio, for higher signal & better resolution
- Greater tandem dye stability for low bleed-through and lot-to-lot consistency

The technology

- Unfolding of donor dye
- Link of acceptor dye
- Purification

The benefits

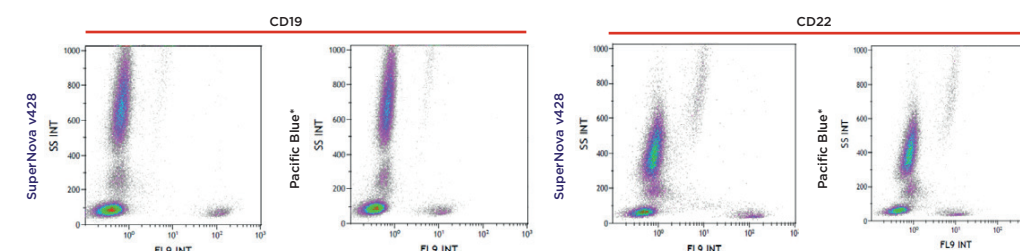
- Lot-to-lot consistency
- Low bleed-through
- Prevention of errors, and minimizing set-up time



SuperNova Polymer Dyes**

Next generation of polymer dyes excited by the violet laser

- Greater confidence in results thanks to a proprietary formulation
- Identification of dimly expressed cell population, thanks to an optimal brightness and staining index



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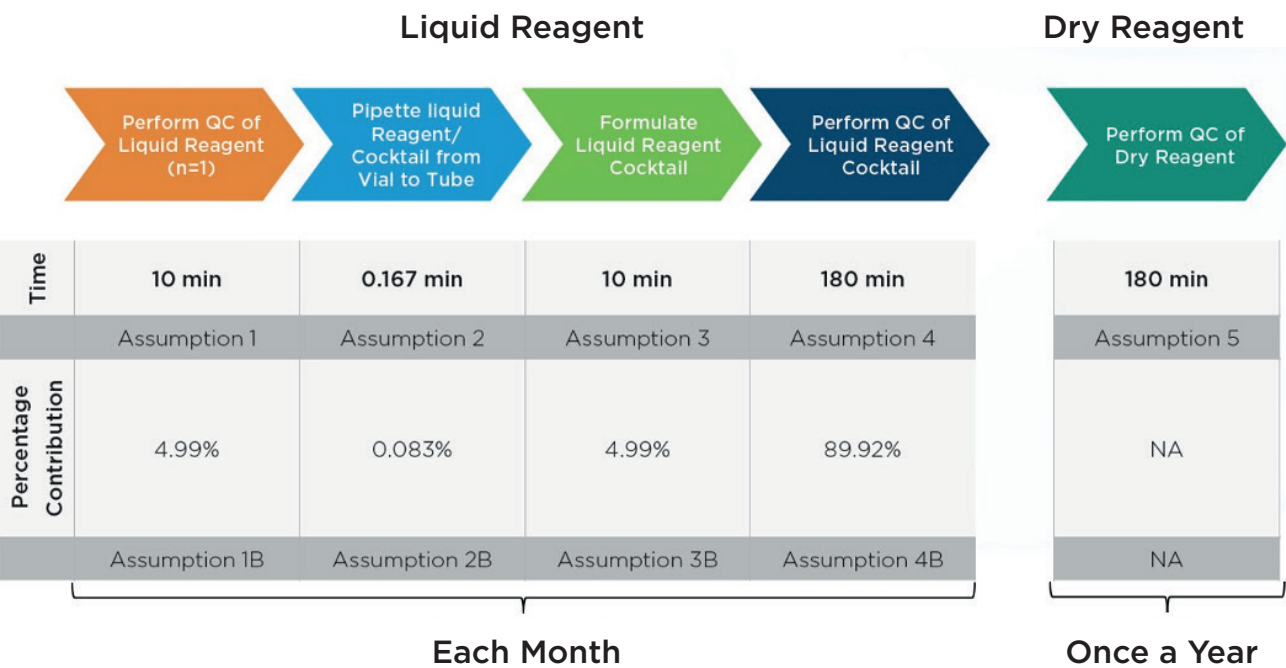
Dried Reagent Technology

DURA

- Uniform dried reagent at the bottom of the tube
- Ship & store at room temperature (18-30° C)
- Ready to use, preformulated for 1 test
- Just add sample
- Suitable for drying conjugated antibodies, stabilizing them for room temperature (18-30° C) storage.
- Tube-to-tube consistency
- Catalog & customizable options



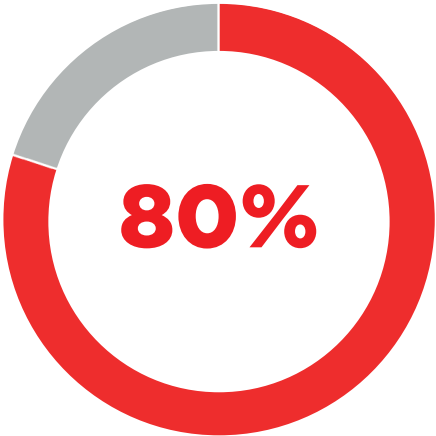
Streamline your antibody cocktail preparation with ready to use dry reagents.



DURA Innovations

Streamlining L&L Analysis

Save time and resources by switching to our dry antibody format and reduce error-prone manual cocktailing



80% reduction in time needed to prepare leukemia & lymphoma cocktail*



IVD Products powered by DURA Innovations

ClearLLab LS Reagent Lymphoid Screening Tube	See Page 7
ClearLLab 10C Reagent System Integrated Leukemia & Lymphoma** immunophenotyping solution	See Page 9

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Kaluza C Analysis Software

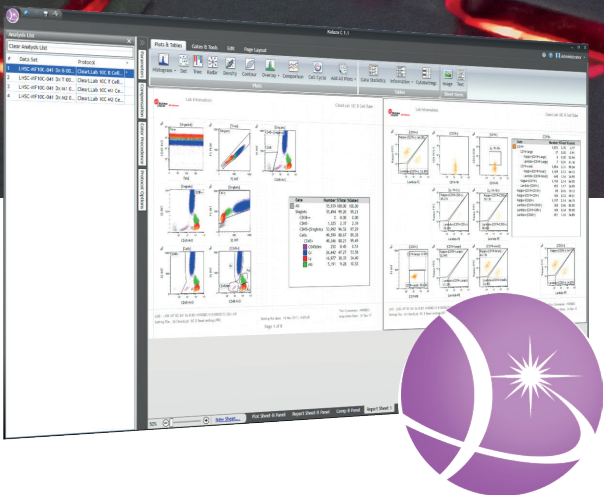
Protects your data and your reputation

Designed for the needs of clinical labs

Easy to learn, easy to use

Get more information out of your data

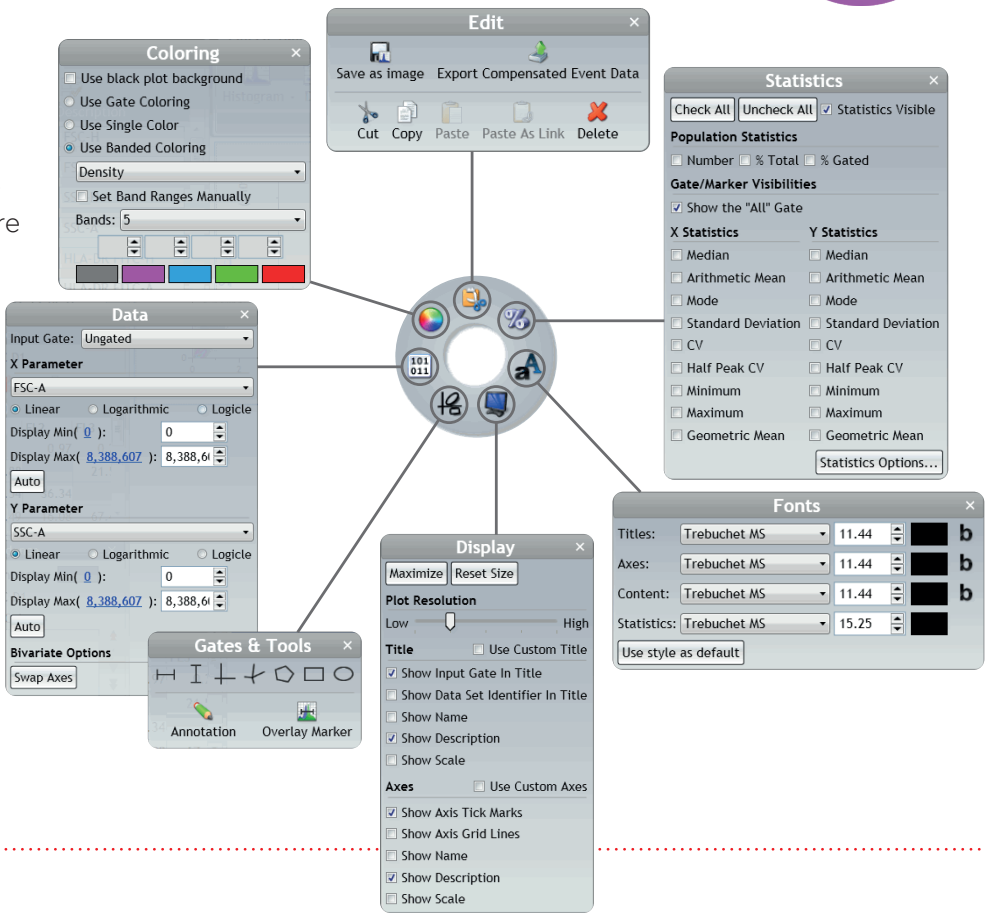
- LIS connectivity
- QC module
- Compare reports
- Electronic sign off
- Platform-agnostic
- Intuitive, user-friendly interface
- No rooting around in sub-menus required
- Full suite of analysis and statistical tools
- Exclusive display options for multi-parametric data and rare events



Context Specific Radial Menu

It took a lot of thought to create an analysis software this simple.

At the heart of the Kaluza philosophy is the concept that what you need is just a right click away.

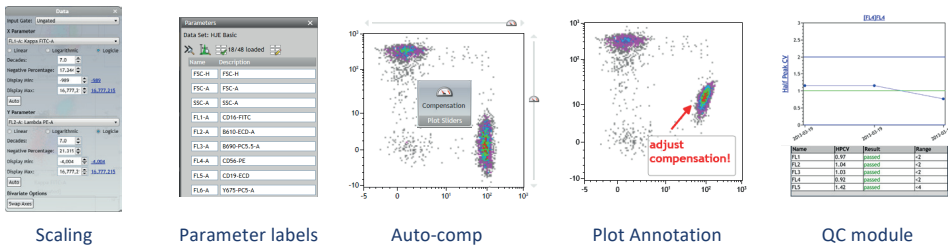


Kaluza C

Software Features

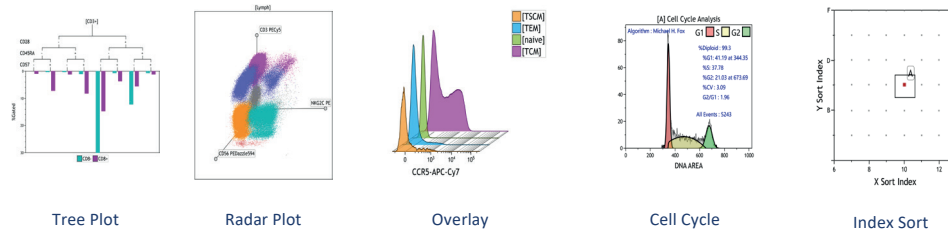
Data Processing

- Compensation
- Transformation



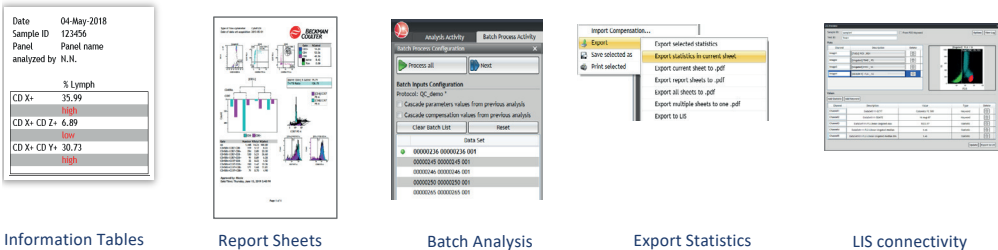
Data Analysis

- Visualization
- Plug In tools



Results and Reporting

- Batch Analysis function
- LIS Connectivity



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From Product to Analysis Reports.
We Are On Your Side.



By Flow Cytometrists For Flow Cytometrists

- Scientific background:
(Immunologists, Cell Biologist, Virologists, etc.)
- Educational background:
(PhD, MD, Master degree, Technologist)



We Are On Your Side

- Technical support for panel design
- On site support for assay set-up
- Configuration of reports and LIS transmission
- Application service hotline

Minimize downtime. Maximize peace of mind.

HERE FOR WHAT
MATTERS MOST:
KEEPING YOUR LAB
UP AND RUNNING.



BeckmanConnect

- Remote desktop sharing (view/control)
- File transfer (to and from instrument controller PC)
- Downloadable and customer installable
- Customer must approve all remote activity



LESS NEED FOR ON-SITE VISITS

When an instrument is linked to BeckmanConnect remote support, 66% of issues can be resolved remotely. Without it, that rate drops to 22%.



FASTER FIXES

With better remote resolution and diagnosing of the root causes, you can expect two days shorter wait time to resolve your issue.



SEAMLESS & EASY

On an NES scale of 1 to 7 (1 being extremely easy and 7 being extremely difficult), customers who have used BeckmanConnect remote support rated their experience 1.4.



SAFE & SECURE

You'll be speaking directly with our HIPAA-trained support experts. BeckmanConnect remote support software is ISO/IEC 27001 certified and GDPR compliant, and communication controls are encrypted and permission-based.

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Choose Beckman Coulter Life Sciences

for Benchmark Expertise
and Innovation

Since 1935, Beckman Coulter has driven innovation. We remain committed to shaping flow cytometry technology that fits seamlessly into your lab's workflow and provides an optimal user experience. When you choose a Beckman Coulter solution you receive a high level of expertise, innovation, and quality assurance.

Contact your local Beckman Coulter sales representative.



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