

CELL-DYN Emerald 22 AL



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HEMATOLOGY ANALYZER

TURN SMALL PLACES INTO SMART SPACES

CHOOSE TRANSFORMATION™

Achieve measurably better healthcare performance.

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CELL-DYN Emerald 22 AL

Simply Smart

FULL PERFORMANCE SOLUTION FOR SMALL TO MID-SIZE CLINICAL LABORATORIES



COMPACT DESIGN

Conserve valuable laboratory space with a small footprint and only 2 reagents, plus onboard cleaner



WALKAWAY FUNCTIONALITY

Optimize hematology workflow with 50 tube load-up capacity



EASE OF USE

- Reduce hands-on time with touch-free scheduled daily maintenance, startup and shutdown
- Decrease manual entry errors and help to comply by use of barcoded reagents



SMART SAFETY FEATURES

- Ensure user safety with a specially developed open tube sample device
- Prevent errors with optional tube bypass for specimens with unreadable barcodes

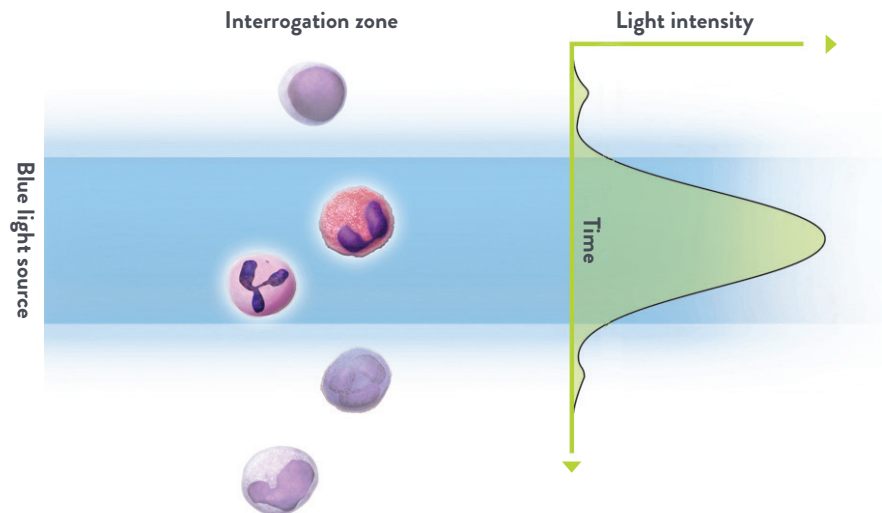


5-Part Differential, 1 Channel, 0 Stains or Dyes

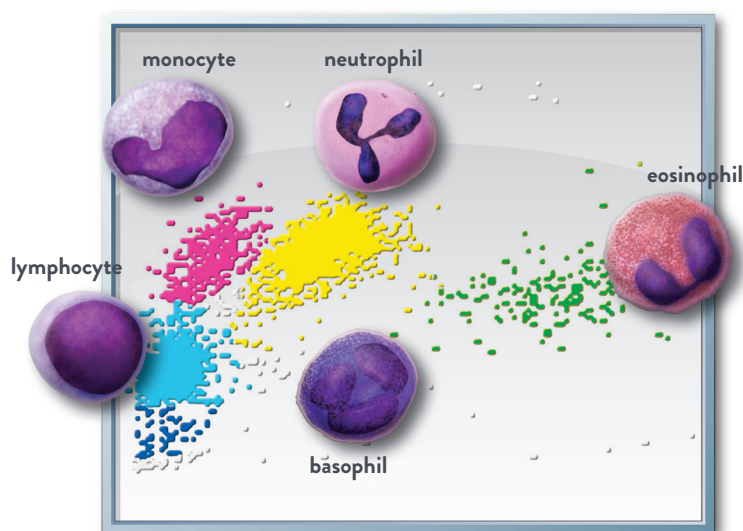
UNI-FLOW optical technology used by the CELL-DYN Emerald 22 AL analyzer includes a cyanide- and formaldehyde-free lyse, flow cell, and optical bench.

The unique blend of detergents used in the lyse enables a 5-part differential by maintaining cell populations close to their native state.

Each white blood cell entering the optical detection area in the interrogation zone generates two pulses - Axial Light Loss and Forward Side Scatter. The 5-part differential is achieved by scattergram analysis in a single channel with no additional dyes or stains.



Blue LED enhances efficiency of cellular characterization



The low wavelength (455 nm) of the blue solid state LED accentuates the differentiation of intracellular contents, improving the identification and optical separation of eosinophils and monocytes from neutrophils. The segregated subpopulations are plotted on the scattergram where morphological flagging is also determined.

The unique flow cell design, reliable LED light source, and simple optical bench provide a true 5-part differential in a small, easy-to-use, walkaway analyzer.

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SPECIFICATIONS	DESCRIPTIONS
Methods & Technology	<ul style="list-style-type: none"> Optical flow cytometry technology Electronic impedance Absorption spectrophotometry Electronic valves Cyanide-free lyse reagent LCD color touch screen RS232 and TCP/IP LIS interface Multiple USB ports (3 in front, 1 in back)
Throughput	<ul style="list-style-type: none"> 40 samples per hour
Autoloader Capacity	<ul style="list-style-type: none"> 50 tubes (up to 10 racks, 5 tubes per rack)
Sample Size	<ul style="list-style-type: none"> 21 µL
Specimen Data Management	<ul style="list-style-type: none"> Search by date or sequence number Flagging for patient limit sets and panic values 1,500 records with histograms or internal memory Up to 300,000 records on external USB thumb drive Customizable patient limits and report units Barcode reader (reads code 128, code 39, interleaved 2 of 5, and others listed in the Operator's Manual)
Quality Control	<ul style="list-style-type: none"> 12 control files 200 records per file Levey-Jennings graphs Download/upload control information eQC online peer review program
Demographics	<ul style="list-style-type: none"> Sequence number Alphanumeric specimen ID Alphanumeric patient ID Date & time analyzed Patient name CBC with or without 5-part differential Flagging and Alerts
Dispersional Data Alert	<ul style="list-style-type: none"> System-defined limits for reportable range and analytical measurement range Operator-defined patient limits for low, high, and panic values Suspect parameter flags caused by interfering substances or sample abnormalities Suspect parameter flags generated when WBC data indicates possible presence of an abnormal population
Standards & Safety Compliance	<ul style="list-style-type: none"> UL 61010-1 CAN/CSA-C22.2 No. 61010-1 IEC 61326-1 IEC 61326-2-6 IEC 61010-2-101 IEC 60825-1 IEC 61010-1 CE Mark
Peripheral Devices	<ul style="list-style-type: none"> Inkjet or laser printer USB Thumb Drive Handheld barcode scanner Keyboard
Physical Dimensions	<ul style="list-style-type: none"> Height 16.1 in. (41 cm) Width 19.7 in. (50 cm) Depth 17.0 in. (43 cm) Weight ≈ 55 lbs. (25 kg) without on-board reagents

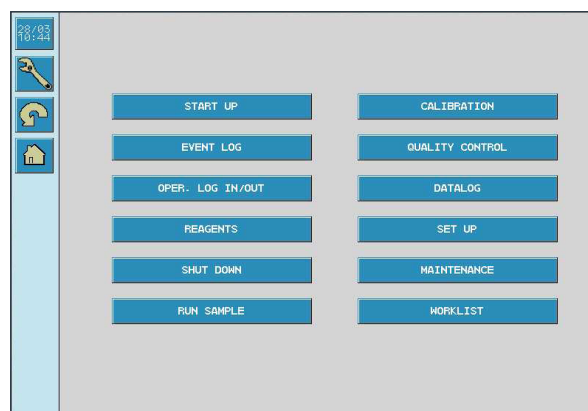
PARAMETERS		
White Cells	Red Cells	Platelets
WBC	RBC	PLT
NEU # and %	HGB	MPV
LYM # and %	HCT	
MONO # and %	MCV	
EOS # and %	MCH	
BASO # and %	MCHC	
	RDW	

REAGENTS	
Reagent Description	Size and List Number
CELL-DYN Emerald 22 Lyse	500 mL (List No. 09H61-01)
CELL-DYN Emerald 22 Diluent	10 L (List No. 09H62-01)
CELL-DYN Emerald 22 Easy Cleaner	980 mL (List No. 09H60-01)

CONTROLS & CALIBRATORS	
CELL-DYN 22 Plus Control	09H72-01 (full-pack 12 tubes) 09H72-02 (half-pack 6 tubes)
CELL-DYN 22 Plus Calibrator	09H73-01

RACKS	
Description - Accessories	List Number
Emerald 22 AL Type 1 Racks (1-10) Standard Tubes	04T53-01
Emerald 22 AL Type 1 Racks (11-20) Standard Tubes	04T54-01
Emerald 22 AL Type 1 Racks (21-30) Standard Tubes	04T55-01
Emerald 22 AL Type 2 Racks (1-10) Sarstedt Tubes	04W22-01
Emerald 22 AL Type 2 Racks (11-20) Sarstedt Tubes	04W23-01
Emerald 22 AL Type 2 Racks (21-30) Sarstedt Tubes	04W24-01

MAIN MENU



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CELL-DYN Emerald 22 AL is not commercially available in all countries including the U.S.

CELL-DYN Emerald 22 AL is a Class 1 laser product which contains an embedded Class 2 laser. For *in vitro* diagnostic use only.

Refer to the Operator's Manual for operational precautions, limitations, and hazards.

Manuals may be found on the www.corelaboratory.abbott website.

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