



Introducing the GloCyte® Automated Cell Counter for CSF.

There's never been a CSF analyzer like this.

GloCyte delivers highly accurate and precise TNC and RBC results using a novel combination of fluorescence technology, highly specific reagents, and an intelligent counting algorithm.

GloCyte can handle all of the CSF specimens that enter your laboratory—it provides cell counts you can trust at clinically relevant low levels and reduces valuable time spent counting more difficult specimens.

Performance specifications

Sample type Human cerebrospinal fluid

Assay parameters Total nucleated cell (TNC) and red blood cell (RBC)

Sample volume 30 µL per assay

Total test time 1-2 specimens in under 5 minutes

Linearity

Linearity is established when the observed values have a mathematically verified straight-line relationship with true concentrations of the analyte, i.e. they are directly proportional to each other.

Cell type	Linearity range [cells/µL]
TNC	0-7,438
RBC	0-615,644

Reference: CLSI EP-6A *Evaluation of the Linearity of Quantitative Measurement Procedures: A Statistical Approach; Approved Guideline* (2003).

Detection capability

Limit of blank (LoB) and limit of detection (LoD) are determined by testing blank CSF specimens and CSF specimens with low concentrations (1-2 cells/µL) of TNCs and/or RBCs. Limit of quantitation (LoQ) is calculated using the root mean square (RMS) model.

Analyte	LoB [cells/µL]	LoD [cells/µL]	LoQ [cells/µL]
TNC	<1	1	3
RBC	<1	1	2

Reference: CLSI EP17-A2 *Evaluation of Detection Capability for Clinical Laboratory Measurement Procedures; Approved Guideline, Second Edition* (2012).

Reportable ranges

The reportable range is the minimum amount of analyte (LoQ) and the maximum amount of analyte allowing for specimen dilution that can be reliably reported.

Cell type	Reportable range [cells/µL]
TNC	3-6,500
RBC	2-615,644

Reference: CLSI EP17-A2 *Evaluation of Detection Capability for Clinical Laboratory Measurement Procedures; Approved Guideline, Second Edition* (2012).

Stability

Consumable shelf-life

	Closed	Open
Cartridge	10 months at room temperature	Not applicable
TNC Reagent	15 months at 2-8°C	5 days at room temperature
RBC Reagent	15 months at 2-8°C	5 days at room temperature
Low and High Level Controls	7 months at 2-8°C	8 days at 2-8°C

Software

Database Each database has a capacity of 4 GB, a size to hold approximately 1,500 test records. Once a database is full, a new database can be created.

Software analysis time Approximately 3 to 5 seconds to analyze an image for a result in cells/ μ L

Laboratory information systems (LIS) capable

Onboard data export features

System specifications

Power requirement

- Universal AC/DC power supply: 100 to 240 VAC (50/60 Hz)/1A
- Instrument: 12 VDC/2A
- Vacuum Station: 5 VDC/0.5A

Communications

 USB 2.0 ports

Operating conditions

- Temperature: 18°C to 35°C (64°F to 95°F)
- Humidity: 5 to 90% RH, non-condensing

Storage temperature

- GloCyte instrument & vacuum station: -20°C to 60°C (-4°F to 140°F)
- GloCyte test cartridges: 10°C to 40°C (50°F to 104°F)

Dimensions (D x W x H)

- Instrument: 20.4 cm x 15.3 cm x 25.5 cm (8.0" x 6.0" x 10.0")
- Computer: 20 cm x 50 cm x 40 cm (8.0" x 20.0" x 16.0")
- Vacuum station: 10.8 cm x 12.1 cm x 10.8 cm (4.3" x 4.8" x 4.3")

Net weight 18.1 kg (40.0 lbs.)

Shipping weight 24.5 kg (54.0 lbs.)

GLQCYTE[®]
Clear results that count



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The management system governing the manufacturing of this product is ISO 9001 and ISO 13485 registered.

Hot-Line® Technical Service Advanced Instruments Hot-Line Service provides comprehensive customer service and technical support.

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