



PRODUCT: Cyto-Cal™ Count Control

CATALOG NO.: FC7

VOL.: 10 mL aqueous suspension with 0.05% Tween-20 and 2 mM sodium azide.

CONC.: 1×10^6 particles/mL (nominal); actual count number is on the label.

STORAGE UPON RECEIPT: Store at 2 - 8 °C, protected from light. Do not freeze.

PRODUCT DESCRIPTION: Cyto-Cal™ Count Control consists of uniform 7 µm fluorescent polymer beads in an aqueous suspension with a precisely specified number of beads/mL. By counting the number of cell events and the number of bead events, and knowing the bead concentration, the absolute cell count can be determined by the following formula:

$$\text{Absolute Cell Count (cells/}\mu\text{L)} = (\text{Num cell events} / \text{Num bead events}) \times \text{Bead conc. (beads/}\mu\text{L)}$$

DIRECTIONS FOR USE: The microsphere suspension should be mixed by gentle inversion by hand or vortex mixer to ensure that the particles are completely suspended before use. Reverse pipetting is recommended. To reverse pipette, the pipette plunger is pressed to the second stop, the fluid is aspirated in slight excess, and the aspirated sample is dispensed against the bottom of the test tube, leaving some residual sample in the pipette tip. Pipette 100 µL of stained blood in a lyse-no-wash technique and 100 µL of beads into the sample tube. Add lysing solution, and dilute with 1 mL deionized water or buffer. Count all cell events and bead events and determine the absolute cell count using the above formula.

EXPIRATION: The expiration date is on the label. This product should not be used past its expiration date.

Due to minor variations between batches, the measured mean diameter may change slightly from batch to batch.

LIMITED WARRANTY: These products are intended for laboratory use by trained scientific personnel. Determination of their suitability for a specific end-use is the responsibility of the user, who assumes all liability for loss or damage arising out of the use of the product. Rebottling or relabeling voids the warranty and certification. Microgenics Corporation's warranty is limited to replacement of defective products if returned with our authorization within 60 days of purchase date.

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