Product Datasheet

Absolute Rainbow Cell Count Particle Set
NBP3-00495

Unit Size: 3 ml

Store at 4C in the dark. Do not freeze.

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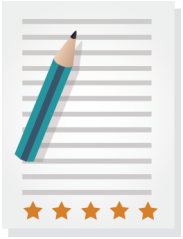


NBP3-00495

Absolute Rainbow Cell Count Particle Set

Product Information

Unit Size	3 ml
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at 4C in the dark. Do not freeze.
Preservative	0.2% Sodium Azide
Buffer	0.016 M PBS (pH 7.4), 0.2% BSA

Product Description

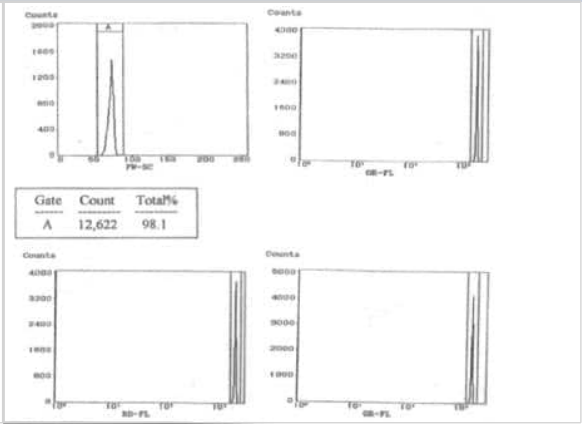
Description	The Absolute Rainbow Cell Count Particles are designed as reference particles with a known number of particles per mL for counting the absolute cell number in flow cytometry. These fluorescent particles can be detected in FITC, PE, PE-TR, PE-Cy5, and APC channels. Concentration: 10^6 particles / mL Particle size: 8.0 - 12.9 micron Particle material: polystyrene

Product Application Details

Applications	Flow Cytometry
Recommended Dilutions	Flow Cytometry
Application Notes	Shake bottle vigorously or vortex briefly before use.

Images

Absolute Rainbow Cell Count Particle Set [NBP3-00495] - Histograms showing counts of particles in the Orange, Red, and Green channels.



Procedures

Flow Cytometry Protocol for Absolute Rainbow Cell Count Particle Set (NBP3-00495)
Shake bottle vigorously or vortex briefly before use.
1. Add the monoclonal antibody of your choice to 100 uL of test sample.
2. Incubate, lyse, wash, and then resuspend in 1 to 2 mL PBS. If staining and lysing are not needed, just mix a known volume of test sample in 1 to 2 mL PBS
3. Add exactly 50 uL of NBP3-00495 particles to the suspension. Precision when pipetting is absolutely critical.
4. Run the sample in the flow cytometer and obtain the amount of events for the NBP3-00495 particles and your test sample.
5. Calculate the number of cells accordingly:
(A/B) x (C/D) = Number of cells per uL
where
A = number of events for the test sample
B = number of events for the NBP3-00495 particles
C = number of NBP3-00495 particles per 50 uL
D = volume of test sample initally used

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Support products are guaranteed for 6 months from date of receipt.

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