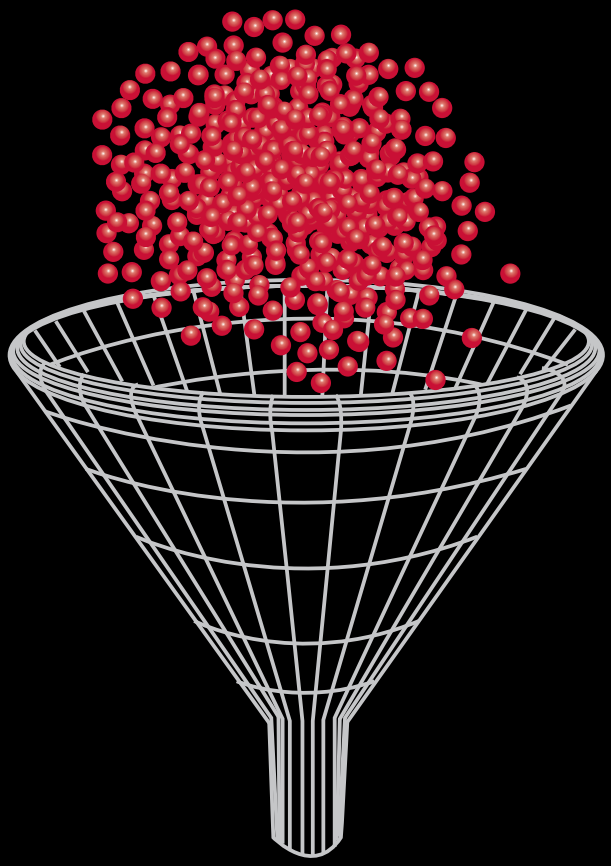
Perfect-Count Microspheres™

The new standard for absolute counts

CYTOGNOS



In our compromise with the innovation and new reagents design for flow cytometry, CYTOGNOS presents Perfect-Count Microspheres™, the newest concept for reliable absolute counts.

Perfect-Count Microspheres™ is a microbead-based single platform system, which assures the accuracy of absolute count results. Its unique internal quality control system contains two types of beads with densities around the upper and lower densities of peripheral blood cells. Variations of the ratio between beads type A and B warns about problems during sample preparation and/or acquisition which could invalidate final results.

Microbead-based single platform technology

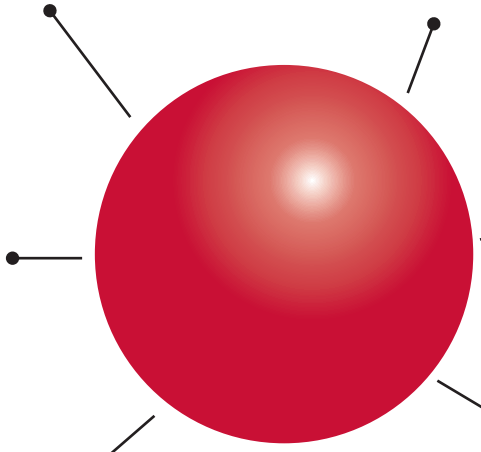
The single platform technology has emerged as the method of choice for absolute cell enumeration because comparative laboratory and external quality assessment studies have demonstrated that this methodology offers a lower intra- and inter-laboratory variation. Microbead-based technology consists of known amounts of fluorescent microbeads are admixed to a known volume of stained sample in a lyse-no-wash technique and the beads are counted along with cells. The prerequisite of this methodology is that both types of beads and the sample must be acquired simultaneously and without any acquisition selection bias, as failure to meet these criteria would lead to errors in the calculated absolute counts.

PerfectCount Microspheres™ identify and minimise these issues by consisting of two bead populations (defined as bead A and bead B) with different light scatter, fluorescence, and floatation characteristics. Comparison of beads A to beads B proportions enables sample homogeneity to be checked during acquisition and alerts the user to any selective acquisition.

Perfect-Count Microspheres™ bring precision to your absolute counts

Single platform system. Eliminates inter- and intra- laboratory variability using different instruments to determine absolute cell counts.

Accurate results. It is the unique microbead-based system, which assures a homogeneous mixture of bead and cells during sample acquisition process.

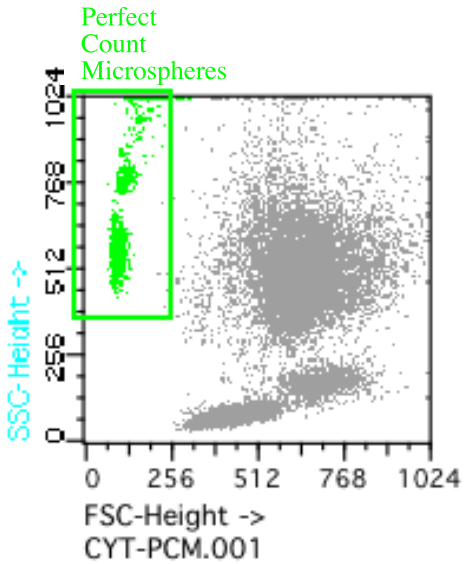


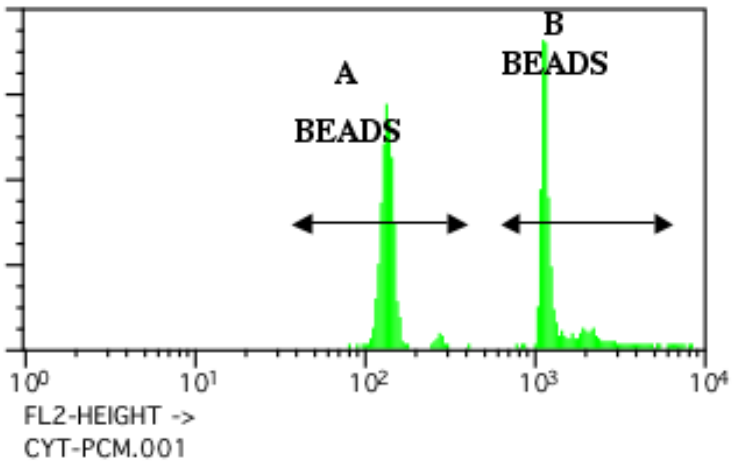
Simple and easy-to use. Avoid side scatter adjustments to visualize clearly cells and beads present in the sample.

QC of dispensing procedures The presence of two bead populations enables control of mixing and pipetting steps of bead suspension.

Stability. Initial bead concentration is strictly controlled and keeps consistent during more than a year.

Ensures accurate counting. The Perfect-Count Microspheres™ suspension contains protein supplements to prevent beads adhesion to the tube walls.





Perfect-Count Microspheres™ is the unique microbead-based method for absolute counts with internal QC check, which assures reliable and accurate results.

Perfect-Count Microspheres™	CYT-PCM-50	50 Test
Perfect-Count Microspheres™	CYT-PCM-100	100 Test

Storie I et al. "Perfect Count: A novel approach for the single platform enumeration of absolute CD4+ T-lymphocytes." Cytometry Part B (Clinical Cytometry) 57B: 47-52 (2004)

CYTOGNOS SL.
Pol. la Serna, Km. 0, Nave 9 ● 37900 Santa Marta de Tormes
Salamanca (Spain)
Phone: + 34 923 125067 ● Fax: + 34 923 125128
Mail: cytognos@vitrosp.com