

MICROCYTE[®] staining kits

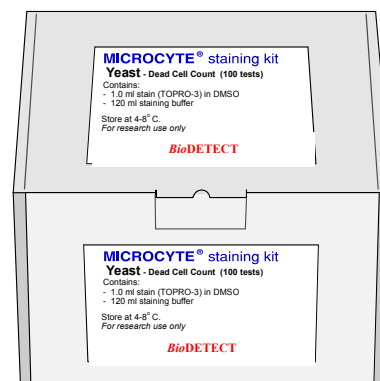
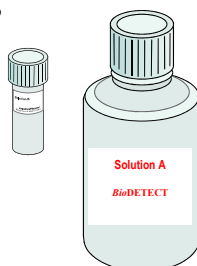
The EASY way to obtain rapid enumeration viability analysis of your cells

MICROCYTE[®] staining kits contain fluorescent stains and buffers sufficient for 200 tests each. The following options are available:

Prod. No.	Description	Stain
7030	Yeast - Dead Cell Count	TO-PRO [™] -3
7040	Bacteria - Dead Cell Count	TO-PRO [™] -3
7050	Animal cell viability	TO-PRO [™] -3
7060	Total Cell Count	SYTO [®] 62

Key advantages:

- easy to use
- rapid
- optimal staining of target organisms
- minimal background staining
- reproducible results



Every kit is carefully designed to obtain optimum staining of the organisms in question while keeping background staining at a minimum. All buffers and stains are ready to use straight from the kits; no dilutions are necessary. The measurements are carried out in MICROCYTE[®], which provides reproducible and recordable results within few minutes from sampling. More information about MICROCYTE[®] is available on www.biodetect.no.

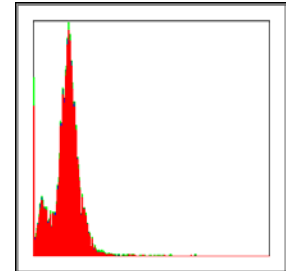
How to use a MICROCYTE[®] staining kit:

1. Dilute cell sample to 10^4 - 10^7 cells per ml in solution A (the staining buffer).
2. Add 10 μ l of solution B (the stain).
3. Whirl mix and incubate 5 minutes.
4. Analyse in MICROCYTE[®].

Results are presented as two-colour histograms showing cell size distribution and presence of fluorescence. The numbers of non-stained and stained cells are displayed on the screen.

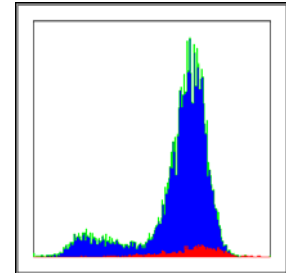
Example 1: Total counts of *Escherichia coli*

Kit No. 7060 was used to achieve total bacterial counts. The completely red histogram shows that all cells have taken up SYTO[®] 62.



Example 2: Dead counts of *Saccharomyces cerevisiae*

Kit No. 7030 was used to enumerate dead cells in a fresh package of baker's yeast. The red fraction of the histogram shows cells that have taken up TO-PRO[™]-3 and the blue part represents cells excluding the stain. Approximately 6 % of the cells are dead according to this method.



Kit specifications:

<u>Working principle</u>	TO-PRO [™] -3 and SYTO [®] 62 are nucleic acid stains. TO-PRO [™] -3 performs "dye exclusion test" by being incapable of entering intact cell membranes. SYTO [®] 62 is cell-permeant and stains dead cells as well as live and permeabilized cells.
<u>Contents, each kit</u>	120 ml staining buffer (Solution A) 1 ml TO-PRO [™] -3 or SYTO [®] 62 in DMSO (Solution B) Instruction leaflet and Material Safety Data Sheet
<u>Storage</u>	4-8 °C
<u>Shelf life</u>	9 months
<u>No. of tests</u>	200 per kit

For more information, please contact your nearest MICROCYTE[®] representative or BioDETECT AS.

TO-PRO[™]-3 and SYTO[®] 62 are trade marks and patented by Molecular Probes, Inc. OR, USA.
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BioDETECT develops, manufactures and markets instruments and kits targeted at the pharmaceutical, beverage, water, military/civil defense and OEM markets. The products aim at offering robust, rapid and accurate enumeration and analysis of microorganisms from a liquid, air or powder sample.

