

Rev.: 001 Issued August 2014 Read this package insert carefully before use

REF 05-6000-02

Yeast Control - Viability

INTENDED USE

This kit contains ready-to-use staining solutions for the fluorescent staining of vital yeast cells taken from growing cell cultures. Cells obtained from fermentation processes are stained directly without further treatment and analyzed in a flow cytometer with a blue laser light excitation.

KIT COMPONENTS

Packing contains reagents for 100 tests:

1 ml Solution A1 ml Solution B

INSTRUCTIONS

For instrument alignment and quality control, please refer to the IFU of your Flow Cytometer.

Sample preparation for fresh cells of yeast cell cultures:

- put 1 ml of yeast cell suspension (approx. 1 million cells) into a sample tube (Order No.: 04-2000)
- add 10 μl Solution A and mix it
- incubate for 10 minutes at room temperature in the dark
- add 10 μl Solution B and mix it
- analyze with your flow cytometer

Instrument requirements:

A flow cytometer equipped with blue laser light excitation (488 nm), capable of analyzing forward scatter (FSC), side scatter (SSC) and green and red fluorescence detecting parameter.

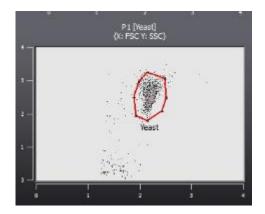
Instrument settings:

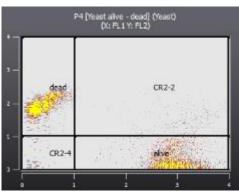
- Laser light source: 488 nm
- Trigger: FSC
- Speed: 0.5 μl/sec (or higher for low cell concentrations)

Data analysis:

- the yeast cell population will be presented in a dot plot of FSC – SSC
- define a region around the yeast cell population (R1)
- the dot plot green FL red FL present the fluorescently labelled cells

- apply the gate R1 to the dot plot green FL red FL
- compensate the crosstalk between green and red fluorescent channels according to the instructions given in the IFU of your flow cytometer
- separate the cell populations by selecting quadrants
- percentage of living cells can be obtained in the quadrant with high green and low red fluorescence, dead cells are in the quadrant with low green and high red fluorescence





Yeast suspension prepared with Yeast Control-Viability kit and measured on a CyFlow® Cube;

STORAGE AND STABILITY

Storage: 2-8°C in the dark

Shelf life: please refer to the expiry date labeled on the bottle.

DISPOSAL PROCEDURE

Disposal procedure should meet requirements of applicable local regulations.

MANUFACTURER Sysmex Partec GmbH Am Flugplatz 13 02828 Görlitz Germany