



Rev.: 001

Issued July 2014

Read this package insert carefully before use

CyStain® DNA/Protein

REF 05-5006

INTENDED USE

CyStain® DNA/Protein is a ready-to-use staining solution for the simultaneous fluorescent staining of nuclear DNA and total protein of fixed human and animal cell material. The prepared samples can be analyzed on flow cytometers with UV excitation, blue emission for nuclear DNA and red emission for total protein.

CyStain® DNA/Protein is for use in basic research with no intended medical purpose as specified in MEDDEV.2.14/2 rev.1. It is therefore labeled as "for research use only" (RUO) product.

KIT COMPONENTS

Packing contains reagents for 250 tests:

- 500 ml *Staining Solution*

INSTRUCTIONS

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

Sample preparation:

Sample fixation:

- Spin down cells from suspension culture
- Remove supernatant and wash once with PBS
- Spin cells down again and remove PBS
- Add 70% ice-cold Ethanol and keep it at least for 12 hours at 4 °C for fixation

Before staining it should be verified that no cell aggregates have been formed. In this case aggregates can be removed by a short incubation in trypsin or pepsin in PBS buffer.

Sample staining:

- spin about 2×10^6 cells down, choose conditions adequate for your cells
- wash the pellet with PBS or TRIS buffer (pH 7.0 - 7.5)
- spin the cells down again; choose conditions adequate for your cells
- remove supernatant
- add 2.0 ml of *Staining Solution* to the pellet, vortex and incubate 5 minutes at room temperature in the

dark - incubation over night at 4°C increases the homogeneity of the staining and the resolution of analysis

- filter sample through 50 µm *CellTrics®* filter (Order No.: 04-0042-2317) into a sample tube (Order No.: 04-2000)
- analyse in a flow cytometer

Instrument requirements:

A flow cytometer with UV excitation ($\lambda = 355 \text{ nm} - 375 \text{ nm}$), a parameter for blue fluorescence emission ($\lambda = 435 \text{ nm} - 500 \text{ nm}$) and a parameter for red fluorescence emission ($\lambda > 630 \text{ nm}$).

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

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