

# PRODUCT DATA SHEET



ENZ-51021

## Nuclear-ID™ Green chromatin condensation detection kit for fluorescence microscopy and flow cytometry

### Product Number/Sizes

ENZ-51021-K200 1 Kit

### Product Specifications

#### KIT/SET CONTAINS:

Nuclear-ID™ Green Cell Cycle Detection Reagent, 100 µL  
Apoptosis inducer (Staurosporine), 50nmoles  
10X Assay Buffer, 30 mL

#### APPLICATION:

This kit provides a rapid assay for nuclear condensation, a prominent hallmark of apoptosis.

#### QUALITY CONTROL:

- Absorption peak of Nuclear-ID™ Green dye:  $\lambda_{\text{max}} = 507 \pm 4 \text{ nm}$
- % purity of Nuclear-ID™ Green dye by HPLC:  $\geq 93\%$
- A sample from each lot of Nuclear-ID™ Green Cell Cycle Analysis Kit is used to analyze Jurkat cells using the procedures described in the user manual. The following results are obtained: (a) Untreated control cells: Viable cells:  $>85\%$ ; Apoptotic cell population:  $<15\%$  (b) Apoptosis inducer treated cells: Viable cells:  $>60\%$ ; Apoptotic cell population:  $<30\%$  (c) Mean fluorescence of apoptotic cells / mean fluorescence of viable cells:  $>40$

QUANTITY: 200 assays

SHIPPING: SHIPPED ON DRY ICE

SHORT TERM STORAGE:  $-20^{\circ}\text{C}$

LONG TERM STORAGE:  $-80^{\circ}\text{C}$

HANDLING: Avoid freeze/thaw cycles. Protect from light.

### Product Description

Enzo Life Sciences' Nuclear-ID™ Green Chromatin Condensation Detection Kit provides a rapid and convenient assay for one of the prominent hallmarks of apoptosis, nuclear condensation. The kit contains a DNA intercalating dye that brightly stains the condensed chromatin of apoptotic cells, but only dimly stains the normal chromatin of live cells. This staining pattern makes it possible to distinguish between healthy and apoptotic cell populations by fluorescence microscopy or flow cytometry.

The kit contains sufficient reagents for approximately 200 flow cytometry assays. A control apoptosis-inducing agent, staurosporine, is provided for monitoring apoptotic changes in nuclear organization. Potential applications for live-cell studies using the kit include monitoring the stages of chromatin condensation and rapid testing of compounds that induce apoptosis.

### Background/Technical Information

Please click here for the comprehensive manual.

The Nuclear-ID™ Green Cell Cycle Analysis Kit is a member of the CELLestial® product line, reagents and assay kits comprising fluorescent molecular probes that have been extensively benchmarked for live cell analysis applications. CELLestial® reagents and kits are optimal for use in demanding imaging applications, such as confocal microscopy, flow cytometry and HCS, where consistency and reproducibility are required.

Revised 09-Jun-10

**WARNING:** THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

**MATERIAL SAFETY DATA:** This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet.

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