

# Fluorescence Signal Enhancer 1

F23213

## Storage

-20 °C in the dark

## Product Description

Appearance                      Clear liquid

Fluorescence Signal Enhancer 1 is an inhibitor of ATP-dependent fluorescein efflux. It can be used in conjunction with Fluorescein Diacetate Stain (F23211) for fluorescence yeast cell counting with the automated fluorescence cell counters of the LUNA™ family to lower background and increase signal intensity, thereby enhancing the fluorescein signal-to-noise ratio. Fluorescence Signal Enhancer 1 is most effective with metabolically active cells in the log growth phase.

## Directions for Use

1. Wash yeast pellets with Cell Dilution Buffer as needed.
2. Dilute yeast cell suspensions with Cell Dilution Buffer as needed prior to staining.
3. Mix:
  - 1 µL Fluorescence Signal Enhancer 1
  - 1 µL Propidium Iodide Stain for Yeast
  - 1 µL Fluorescein Diacetate Stain
  - 17 µL yeast sample
4. Incubate the mixture at room temperature for 10 minutes.
5. Count the sample with a compatible LUNA™.

## Disclaimer

This product is for research use only.  
Please consult the material safety data sheet for information regarding hazards and safe handling practices.

## References

1. Hong, D. et al. Fast automated yeast cell counting algorithm using bright-field and fluorescence microscopic images. *Biological Procedures Online* 15:13. <http://www.biologicalproceduresonline.com/content/15/1/13> (2013).
2. Kowlek-Miurek, M & Zadrac-Tecza, R. Comparison of methods used for assessing the vitality of yeast cells. *FEMS Yeast Research* 14, 1068-1079 (2014).
3. Lopezamoros R, et al. Flow cytometric assessment of *Escherichia coli* and *Salmonella typhimurium* starvation-survival in seawater using rhodamine-12, propidium iodide, and oxonol. *Applied Environmental Microbiology* 61, 2521-2526 (1995).

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