

Pollen Viability Kit

F23216

Storage

4°C in the dark

Propidium Iodide stain
Pollen Dilution Buffer

-20°C in the dark

Fluorescein Diacetate Stain

Product Description

F23103 Propidium Iodide Stain
F23211 Fluorescein Diacetate Stain
F23104 Pollen Dilution Buffer

Pollen Viability Kit is used to measure concentration and viability of pollen grains using the automated fluorescence cell counters of the LUNA™ family.

FDA is a non-fluorescent dye that permeates cell membranes, undergoing hydrolysis by the esterase activity of viable cells and producing the green fluorescent compound fluorescein. FDA can be retained in viable cells with intact membranes, acting as a live cell marker. PI, a red membrane-impermeable dye, selectively penetrates dead or damaged cells with compromised membranes. PI is a commonly used dead cell marker binding to DNA and RNA through intercalation. Upon binding, a fluorescence intensity of PI can be increased by 20- to 30- fold higher. Pollen Dilution Buffer is for washing and diluting pollen samples.

Directions for Use

1. Wash pollen pellets with Cell Dilution Buffer as needed.
2. Dilute pollen suspensions with Pollen Dilution Buffer as needed prior to staining.
3. Mix:
1 µL Fluorescein Diacetate Stain
1 µL Propidium Stain
18 µL cell sample
4. Incubate the mixture at room temperature for 5 minutes.
5. Count the sample with a compatible LUNA™ automated cell counter.



HEADQUARTERS

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Disclaimer

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

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