

Read this package insert carefully before use

**Pollen Viability Kit**

**REF 05-6010**

**INTENDED USE**

Pollen Viability Kit contains ready-to-use staining solutions for fluorescent staining of pollen and microspores for subsequent analysis on a flow cytometer.

**STORAGE AND STABILITY**

Unopened product

Store reagents at 2–8 °C in the dark. Do not use after the expiration date stated on the label.

Product after first opening

The shelf life after first opening is the same as the shelf life for unopened reagent if stored at stated storage conditions and used according to the instructions in this document.

**KIT COMPONENTS**

Package contains the following reagents:

- 1 mL Solution A
- 1 mL Solution B

Content is sufficient for 100 tests.

**EVIDENCE OF DETERIORATION**

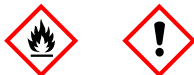
Avoid contamination of reagents. In case of component deterioration or contamination seen as discoloration or turbidity of the reagent or if data obtained show any performance alteration, please contact the Technical Support of your local Sysmex office.

**HAZARD AND PRECAUTIONARY STATEMENTS**

Important information regarding the safe handling, transport, and disposal of this product is contained in the Safety Data Sheet (available at <http://www.sysmex-partec.com/services>).

Always meet the national and international guidelines and regulatory standards for personal protective equipment.

Hazard pictogram(s)



GHS02 GHS07

Signal word(s)

**DANGER**

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

**ADDITIONAL REQUIRED EQUIPMENT**

- Flow cytometer with 488 nm laser light source, capable of detecting side scatter (SSC), green and red fluorescent signals; forward scatter (FSC) parameter optional
- 3.5 mL sample tubes (REF 04-2000)
- Phosphate-buffered saline (PBS)

**INSTRUCTIONS**

*NOTE: For instrument alignment and quality control, please refer to the instructions for use of your flow cytometer.*

Recommended instrument settings

Laser light source: 488 nm

Trigger: SSC

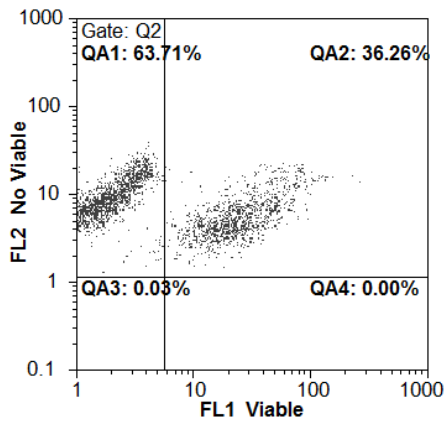
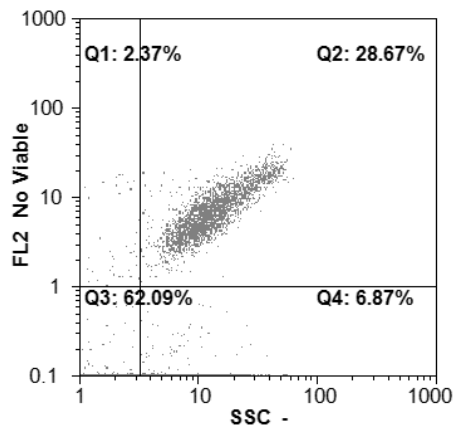
Speed: 2.0 - 4.0 µL/sec

Sample staining

1. Re-suspend 50,000 – 300,000 pollen grains in 2 mL PBS pH 7.4 in a sample tube.
2. Add 10 µL Solution A.
3. Mix the sample and incubate for 10 minutes at room temperature.
4. Add 10 µL Solution B and mix the sample.
5. Proceed with analysis on a flow cytometer.

Recommended data analysis and gating strategy

- Adjust gain settings so that pollen population is displayed in the centre of a dot plot SSC versus red fluorescence.
- Select the pollen population by defining a quadrant range (Q2) to exclude other particulate matter from analysis.
- Adjust gain settings so that fluorescent-labelled pollen are visible in a dot plot green FL versus red FL.
- Apply the selected gate Q2 to this dot plot.
- Separate the cell populations by selecting quadrants.
- The percentage of living cells can be obtained in QA2, of dead cells in QA1.



DISPOSAL PROCEDURE

Disposal procedure should meet requirements of applicable local regulations.










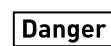
MANUFACTURER



Sysmex Partec GmbH  
Arndtstraße 11 a-b  
02826 Görlitz  
Germany

Phone +49 3581 8746 – 0  
Fax +49 3581 8746 – 70  
E-mail info@sysmex-partec.com  
Web www.sysmex-partec.com

SYMBOLS

	Reference number		Consult accompanying documents
	Batch code		Manufacturer
	Use-by date		Temperature limit
	Contains sufficient for <n> tests		Keep away from sunlight
	Fragile, handle with care		Signal word: Danger