

Read this package insert carefully before use

**REF 05-5007**

## CyStain UV OxProtect

### INTENDED USE

*CyStain UV OxProtect* is a reagent kit for nuclei extraction and DNA staining for a variety of oxidation-sensitive plant species in order to determine ploidy level. The prepared samples can be analyzed on flow cytometers with UV excitation and blue emission.

### KIT COMPONENTS

Packing contains the following reagents:

- 500 ml *Staining Solution*

### PERSONAL PROTECTIVE EQUIPMENT

When using the reagent(s) make sure to wear suitable PPE (gloves and eye protection).

### INSTRUCTIONS

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

#### Preparation and staining of samples:

1. Put about 0.5 cm<sup>2</sup> leaf tissue in a *Petri dish* (REF No.: 04-2005).
2. Add 0.5 ml *Staining Solution*.
3. Chop the plant sample by using a sharp razor blade for 30 - 60 sec (razor blades need to be changed after 5 to 10 samples).
4. Incubate for 30 sec to 5 min.
5. Filter sample through 50 µm *CellTrics® filter* (REF No.: 04-0042-2317) into a *Sample tube* (REF No.: 04-2000).
6. Add 1.5 ml *Staining Solution*.
7. Mix well.
8. Incubate for 30 - 60 seconds.
9. Start analysing.

### PRECAUTIONS

Other plant tissue than leaf material can be used. Amount of tissue is recommendation – adjust if extraction does not properly work. Incubate the sample at room temperature. Incubation time varies between plant species and

tissues and might to be tested to find optimum condition.

Use new petri dish and *CellTrics® filter* for every sample.

Possibility of storage at 2-8°C in the dark is plant specific.

### INSTRUMENT REQUIREMENTS

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

### FLOW CYTOMETRY ANALYSIS

Choose layout suited to display DAPI fluorescent signals. Adjust instrument settings (gain, speed) and run sample. Gate peak of interest and if necessary adjust for every run.

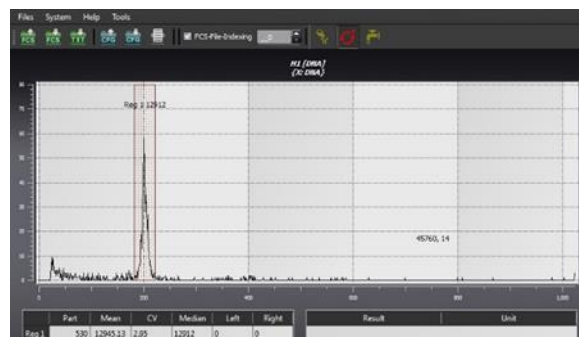


Figure 1: Analysis of *Lantana camara* using *CyStain UV OxProtect* on a *CyFlow® Ploidy Analyser*

### STORAGE AND STABILITY

#### Storage

2 - 8°C in the dark

#### Shelf life

Please refer to the expiry date labelled on the components.

### HAZARD AND PRECAUTIONARY STATEMENTS

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP). For further information refer to the Safety Data Sheet(s). Find Safety Data Sheets to our products at [www.sysmex-partec.com](http://www.sysmex-partec.com).

### DISPOSAL PROCEDURE

Disposal procedure should meet requirements of applicable local regulations.



#### MANUFACTURER



Sysmex Partec GmbH  
Am Flugplatz 13  
02828 Görlitz  
Germany

Fon +49 3581 8756 - 0

Fax +49 3581 8746 - 70

E-mail [info@sysmex-partec.com](mailto:info@sysmex-partec.com)

Web [www.sysmex-partec.com](http://www.sysmex-partec.com)

#### SYMBOLS



Reference  
Number



Manufacturer



Batch code



Temperature  
limit



Use by



Fragile, handle  
with care



Keep away  
from sunlight