

Read this package insert carefully before use

**REF 05-5003-a**

## CyStain® UV Precise T “automate”

### INTENDED USE

*CyStain® UV Precise T “automate”* is a reagent kit for nuclei extraction and DNA staining for plant tissues in order to determine ploidy level. This reagent kit is well suited for the preparation of nuclear DNA staining of plenty of different plant species and a variety of different plant tissues. The prepared samples can be analysed on flow cytometers with UV excitation ( $\lambda < 420$  nm) and blue emission ( $\lambda = 435 - 500$  nm).

### KIT COMPONENTS

Packing contains the following reagents:

- 1000 ml *Nuclei Extraction Buffer*
- 1000 ml *Staining Buffer*
- 21 g *Buffer Reagent*

### INSTRUCTIONS

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

#### Preparation of the buffer:

Important: Before using the *Nuclei Extraction Buffer* mix the *Nuclei Extraction Buffer* with the content of the tube of *Buffer Reagent* (21 g). Store the extraction buffer at 4°C. It can be used for about 7 days.

Smaller amounts of extraction buffer can be prepared by dissolving 21 mg *Buffer Reagent* per millilitre *Nuclei Extraction Buffer*.

#### Sample preparation:

- place an appropriate amount of leaf tissue (e.g. 0.2cm<sup>2</sup>) per sample in one well of a 96-well plate (order no. 04-2020)
- add 0.1 ml - 0.2 ml ready to use extraction buffer
- extract nuclei by your means of choice (e.g. by a ball mill)
- transfer samples or aliquots of samples through a 30 - 50 µm mesh filter into a second well plate
- add 0.1 ml - 0.2 ml *Staining Buffer*
- start analysing samples

Depending on the nature of your sample and the volume of the used well plates above volumes of ready to use extraction buffer and *Staining Buffer* might be adapted.

Flow cytometric analysis:

Fluorescence excitation:  $\lambda < 420$  nm

Fluorescence emission: blue emission for DAPI,  $\lambda$  between 435 nm and 500 nm.

### STORAGE AND STABILITY

Storage: 18-25°C in the dark

Shelf life: please refer to the expiry date as indicated on the components.

### HAZARD AND PRECAUTIONARY STATEMENTS



GHS 07

Signal word: Warning!

H319 Causes serious eye irritation.

P101 If medical advice is needed, have product container or label at hand.

P280 Wear protective gloves/eye protection.

P337+P313 If eye irritation persists: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### DISPOSAL PROCEDURE

Disposal procedure should meet requirements of applicable local regulations.