

Read this package insert carefully before use

REF 05-5002-a

CyStain® UV Precise P “automate”

INTENDED USE

CyStain® UV Precise P “automate” is a reagent kit for nuclei extraction and DNA staining from plant tissues in order to determine ploidy level. 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*

INSTRUCTIONS

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

Sample preparation:

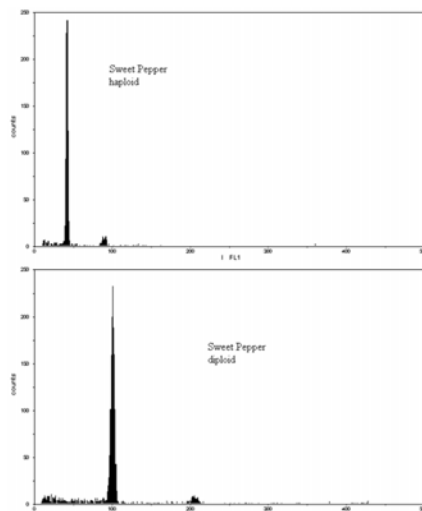
- place an appropriate amount of leaf tissue (e.g. 0.2 cm²) per sample in one well of a 96 well plate (order no. 04-2020)
- add 0.1 ml - 0.2 ml *Nuclei Extraction Buffer*
- extract nuclei by your means of choice (e.g. by a ball mill)
- transfer samples or aliquots of samples through a 30 - 50 μ m mesh 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 *Nuclei Extraction Buffer* and *Staining Buffer* might be adapted.

Flow cytometric analysis:

Fluorescence excitation: $\lambda < 420$ nm

Fluorescence emission: blue emission for DAPI, λ between 435 nm and 500 nm.



Analysis of Sweet Pepper leaf tissue with various ploidy levels.

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



GHS 05

Signal word: Danger!

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

P264 Wash hands and face thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local and national regulations.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.