

Nuclei stains for live cell imaging (confocal)

Ethidium bromide

Mix 1:1 with 1x PBS, immerse plant tissue (roots, leaf sections, anthers) for 1-5mins

Excite with 514nm, sample fluorescence with 530-600nm

DRAQ5

from Biostatus

test in BY-2 cells

works best with Triton but have used with BY-2 cells without Triton

1. For BY-2's without Triton, add 1ul neat DRAQ5 to 200ul BY-2 cells and incubate for 20-40min
2. With Triton: To 500 μ l cells add 1 μ l 20% Triton X-100 (1 μ l Triton X-100 in 5 μ l dH₂O) and 0.2 μ l of 5 mM DRAQ5 for a working concentration of 10 μ M; incubate 1-2min before imaging

Excitation with any laser from 488nm upwards; capture excitation in LP650.