

Checklist for plant genome size estimation by flow cytometry

GSAD: a genome size in the Asteraceae database

Non-essential materials for our regular protocol are written in italics

Basic laboratory equipment

- Crushed ice machine
- Flow cytometer
- Freezer at -20 °C
- Fridge at 4 °C
- Fume hood

Lab tools

- Bio-hazardous waste container
- Crushed ice container (any polystyrene box)
- Micropipettes (preferably P100 and P1000)
- Racks
- Scissors

Consumables

- Cytometer tubes
- Eppendorf tubes*
- Falcon tubes*
- Filters (70 µm of diameter)
- Glass bottles for buffers
- Gloves
- Permanent markers
- Pipette tips (usual sizes: 200 µl and 1000 µl)
- Plastic Petri dishes
- Razor blades (a razor blade holder or alternative protective device like a cork or silicon bung is also recommended)

Reagents

- Extraction buffer
 - Fluorochrome
- (see the "Reagents" document for the different options)