

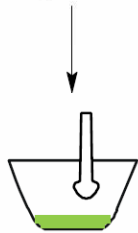
ISOLATION OF CHLOROPLASTS

(Kummerová et al. 2006, modified)

T = 0 - 4 °C



5 g of leaves

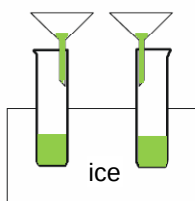


sea sand

homogenization 1 min

cooled mortar

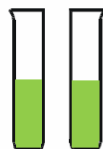
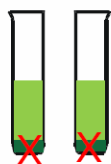
filtration



centrifugation
1000 g / 5 min / 4 °C

supernatant

sediment

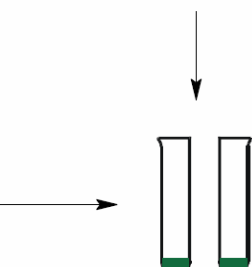


centrifugation
1400 g / 10 min / 4 °C



Resuspension medium

Compound	Concentration
sucrose	0.4 M
Na ₄ P ₂ O ₇	0.05 M
NaCl	0.01 M
MgCl ₂	0.005 M
EDTA	0.001 M
Cystein	0.05%
K ₃ [Fe(CN) ₆]	0.0086 M



Suspension of chloroplasts

Isolation medium:

Compound	Concentration
sucrose	0.4 M
Na ₄ P ₂ O ₇	0.05 M
NaCl	0.01 M
MgCl ₂	0.005 M
EDTA	0.001 M
Cystein	0.05%
Ascorbic acid	0.03 M