

Materials List for

Non-invasive Assay for Chlorophyll Biosynthesis Kinetics Determination during Early Stages of *Arabidopsis* De-etiolation

Veronika Balakhonova^{*1,2}, Nadiia Pushkarova^{*1,3}, Jan Skalak^{1,2}, Tereza Dobisova^{1,2,4}, Zuzana Benedikty⁵, Klara Panzarova⁵, Martin Trtilek⁵, Jan Hejátko^{1,2}

¹CEITEC - Central European Institute of Technology, Masaryk University

²National Centre for Biomolecular Research, Faculty of Science, Masaryk University

³Institute of Food Biotechnology and Genomics, National Academy of Sciences of Ukraine

⁴Labdeers s.r.o

⁵Photon Systems Instruments, Prumyslova

*These authors contributed equally

Correspondence to: Jan Hejátko at jan.hejatko@ceitec.muni.cz

URL: <https://www.jove.com/video/66087>

DOI: [doi:10.3791/66087](https://doi.org/10.3791/66087)

Materials

| Name | Company | Catalog Number | Comments |
|--|-----------------------------|----------------|-------------------------------------|
| 6-benzylaminopurine | Duchefa Biochemie | B0904.0001 | |
| Aluminum foil | Merck | Z691577 | |
| <i>Arabidopsis thaliana Col-0</i> seeds | NASC collection | N1092 | |
| Cultivation chamber | PSI | | custom made |
| Dimethylsulfoxid | Thermo Fisher Scientific | 042780.AK | |
| Eppendorf single-channeled, variable (100-1000 µL) | Merck | EP3123000063 | |
| Gelrite | Duchefa Biochemie | G1101 | |
| iReenCAM device | PSI | | custom made/prototype |
| Laboratory bottles, with caps (Duran), 100mL | Merck | Z305170-10EA | |
| Laminar-flow box | UniGreenScheme | ITEM-31156 | |
| Linerless Rubber Splicing Tape, 19 mm width, black, Scotch | 3M Science. Applied to Life | 7000006085 | |
| Microcentrifuge tube, 2 mL with lid, PPT, BRAND | Merck | BR780546-500EA | |
| Micropore tape | 3M Science. Applied to Life | 7100225115 | |
| Osram lumilux green l18w/66 | Ovalamp | 200008833 | |
| Petri plates - Greiner dishes, square, 120 x 120 x17mm, vented | Merck | Z617679-240EA | |
| Pipet tips, 1000 µL, Axygen | Merck | AXYT1000B | |
| The Plant Screen Data Analyzer software | PSI | | delivered as a part of the iReenCAM |