

Inoculation Strategies to Infect Plant Roots with Soil-Borne Microorganisms

 Alexander Marsell¹, Christian Fröschel¹
¹Department of Pharmaceutical Biology, Julius-von-Sachs-Institute, Julius-Maximilians-Universität Würzburg

Corresponding Author

Christian Fröschel

christian.froeschel@uni-wuerzburg.de

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Materials

Name	Company	Catalog Number	Comments
Agar (Gelrite)	Carl Roth	Nr. 0039	all systems described require Gelrite
<i>Arabidopsis thaliana</i> wild-type	NASC stock	Col-0 (N1092)	
Autoclave	Systec	VE-100	
BlattFlaeche	Datinf GmbH	<i>BlattFlaeche</i>	software to determine leaf areas
<i>Brassica napus</i> wild-type	see Floerl <i>et al.</i> , 2008	rapid-cycling rape	genome ACaacc
Cefotaxime sodium	Duchefa	C0111	
Chicanery flask 500 mL	Duran Group / neoLab	E-1090	Erlenmeyer flask with four baffles
Collection tubes 50 mL	Sarstedt	62.547.254	114 x 28 mm
Czapek Dextrose Broth medium	Duchefa	C1714	
Digital camera	Nikon	D3100 18-55 VR	
Exsiccator (Desiccator)	Duran Group	200 DN, 5.8 L	Seal with lid to hold chlorine gas
Fluorescence Microscope	Leica	Leica TCS SP5 II	
HCl	Carl Roth	P074.3	
KNO ₃	Carl Roth	P021.1	≥ 99 %
KOH	Carl Roth	6751	
Leukopor	BSN medical GmbH	2454-00 AP	non-woven tape 2.5 cm x 9.2 m
MES (2-(N-morpholino)ethanesulfonic acid)	Carl Roth	4256.2	Pufferan ≥ 99 %
MgSO ₄	Carl Roth	T888.1	Magnesiumsulfate-Heptahydrate
Murashige & Skoog medium (MS)	Duchefa	M0222	MS including vitamins
NaClO	Carl Roth	9062.1	
Percival growth chambers	CLF Plant Climatics GmbH	AR-66L2	
Petri-dishes	Sarstedt	82.1473.001	size ØxH: 92 × 16 mm
Plastic cups (500 mL, transparent)	Pro-pac, salad boxx	5070	size: 108 × 81 × 102 mm
Pleated cellulose filter	Hartenstein	FF12	particle retention level 8–12 µm
poly klima growth chamber	poly klima GmbH	PK 520 WLED	
Potato Dextrose Broth medium	SIGMA Aldrich	P6685	for microbiology
Pots	Pöppelmann GmbH	TO 7 D or TO 9,5 D	Ø 7 cm resp. Ø 9.5 cm

<i>PromMYB51::YFP</i>	see Poncini <i>et al.</i> , 2017	MYB51 reporter line	YFP (i.e. 3xmVenus with NLS)
Reaction tubes 2 mL	Sarstedt	72.695.400	PCR Performance tested
Rotary (orbital) shaker	Edmund Bühler	SM 30 C control	
Sand (bird sand)	Pet Bistro, Müller Holding	786157	
Soil	Einheitserde spezial	SP Pikier (SP ED 63 P)	
<i>Solanum lycopersicum</i> wild-type	see Chavarro-Carrero <i>et al.</i> , 2021	Type: Moneymaker	
Thoma cell counting chamber	Mariefeld	642710	depth 0.020 mm; 0.0025 mm ²
Ultrapure water (Milli-Q purified water)	MERK	IQ 7003/7005	water obtained after purification
<i>Verticillium dahliae</i>	see Reusche <i>et al.</i> , 2014	isolate JR2	
<i>Verticillium longisporum</i>	Zeise and von Tiedemann, 2002	strain V/43	