

Materials List for:

Automated Modular High Throughput Exopolysaccharide Screening Platform Coupled with Highly Sensitive Carbohydrate Fingerprint Analysis

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URL: <https://www.jove.com/video/53249>

DOI: [doi:10.3791/53249](https://doi.org/10.3791/53249)

Materials

Name	Company	Catalog Number	Comments
96 well deep well plate 2.0 ml (DWP)	Greiner Bio-One	780271	Main-culture (CP 1-1 to 1-4), equilibration plates for gel-filtration (CP 1-6, 1-7, 2-6 and 2-7), 1:100 dilution for the glucose assay (CP 4-1 to 4-4) containing 990 µl of ddH ₂ O
Breathable Sealing Film	Axygen	BF-400-S	Incubation film for pre- and main-culture DWP
Aluminum Sealing Film	Axygen	PCR-AS-200	-80 °C storage film for glycerol-stock plates
MCA96 Nested Disposable Tips 200 µl	TECAN	30038619	Worktable position (WTP 2-1 to 2-4)
A/B glass-filter-plate 1 µm	Pall Corporation	PN 8031	Stored on collector plate (CP 2-1 to 2-4)
96-well micro titer plate V-Bottom	Greiner Bio-One	651201	Collector plate for filtration plate (CP 2-1 to 2-4)
96-well SpinColumn G-25	Harvard Apparatus	74-5612	Stored on washing DWP (CP 1-6, 1-7, 2-6 and 2-7)
96-well micro titer plate V-Bottom	Nunc	249944	Collector plate for gel-filtration plate (CP 3-1 to 3-4)
Nested Disposable Tips SBS 50 µl tips	TECAN	30038609	Carousel position (CP 4-6, 4-7 and 5-1 to 5-6)
Trough 250 ml	Axygen	Res-SW96-HP	Water WTP 1-1, Glucose assay reagent-mix WPT 1-2, ammonium-acetate buffer pH 5.6 (CP 5-7)
96-well micro titer plate F-Bottom (MTP)	Greiner Bio-One	655101	precipitation 1 (CP 6-1 to 6-4), pH-value (CP 7-1 to 7-4), precipitation 2 (CP 8-1 to 8-4), phenol-sulfuric-acid method (CP 8-5 to 8-8), glucose-assay (CP 9-1 to 9-9), dummy plates (WTP 3-1, 3-2)
96-well silicon cap mat	Whatmann	7704-0105	Cover mat for MTP
200 µl pipette tips	Sarstedt	70.760.002	For manually handling
1,000 µl pipette tips	Sarstedt	70.762	For manually handling
96-well-PCR micro titer plate	Brand	781350	Hydrolysis, PMP-derivatisation
TPE (thermoplastic elastomer) cap mat	Brand	781405	Hydrolysis, PMP-derivatisation
Filter plate 0.2 µm Supor	Pall Corporation	PN 8019	Filtration of samples for UHPLC-ESI-MS analysis with a MTP collector plate
Pipette Tips LHS 5-300 µl	Brand	732150	Brand LHS system
Glucose oxidase	Sigma-Aldrich	G2133	Glucose-assay

Horseradish peroxidase	Sigma-Aldrich	P6782	Glucose-assay, pyruvat-assay
DA-64 (N-(Carboxymethylaminocarbonyl)-4,4'-bis(dimethylamino)-diphenylamine sodium salt)	Wako Chemicals GmbH	043-22351	Pyruvat-assay
Pyruvate oxidase	Sigma-Aldrich	P4591	Pyruvat-assay
Potassium phosphate dibasic	Carl-Roth	P749.3	Pyruvat- and glucose-assay
Potassium phosphate monobasic	Carl-Roth	3904.3	Pyruvat- and glucose-assay
Thiamine pyrophosphate	Sigma-Aldrich	C8754	Pyruvat-assay
Magnesium chloride hexahydrate	Sigma-Aldrich	31413	Pyruvat-assay
2-Propanol	VWR	20922.466	Precipitation
Phenol	VWR	20599.231	Phenol-sulfuric-acid method
Sulfuric acid	Carl-Roth	4623.4	Phenol-sulfuric-acid method
Trifluoroacetic acid	Sigma-Aldrich	T6508	Hydrolysis
Ammonium solution	Carl-Roth	P093.1	Hydrolysis, PMP-derivatization
Ethanol absolut	VWR	20821.321	Hydrolysis, PMP-derivatization
Phenol red	Alfa Aesar	B21710	Hydrolysis, PMP-derivatization
1-Phenyl-3-methyl-5-pyrazolone	Sigma-Aldrich	M70800	PMP-derivatization
Methanol LC-MS	VWR	83638.320	PMP-derivatization
Acetonitril LC-MS	VWR	83040.320	PMP-derivatization
Acetic acid	Sigma-Aldrich	338826	PMP-derivatization
Ethanol absolut	VWR	20821.321	PMP-derivatization
Methyl red	Alfa Aesar	36667	pH-value
Robotic liquid handling system	Tecan	Freedom EVO	Worktable setup in Figure 2
Liquid handling station LHS	Brand	709400	Worktable setup in Figure 2
Tip-Adapter	Brand	709434	Worktable setup in Figure 2
Liquid Ends MC 20-300 µl	Brand	709416	Worktable setup in Figure 2
Adapter 60 mm	Brand	709430	Worktable setup in Figure 2