

Materials List for:

High-throughput Screening of Recalcitrance Variations in Lignocellulosic Biomass: Total Lignin, Lignin Monomers, and Enzymatic Sugar Release

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URL: <https://www.jove.com/video/53163>

DOI: [doi:10.3791/53163](https://doi.org/10.3791/53163)

Materials

Name	Company	Catalog Number	Comments
Biomek FX Automated Workstation	Beckman Coulter	Biomek FX	Automated Liquid Handler
Wiley mill	Thomas Scientific	3375E15 (Model 4), or 3383L20 (Mini-mill)	
anti-static bags	Minigrip*	MGST4P02503	2.5x3", multiple suppliers available
tin-coated copper wire	McMaster-Carr	8871K84	0.016" diameter, bend-and-stay wire
tea-bags	Herbco	press n' brew teabags	3.5x5 inches
gluco-amylase	Novozymes	Spirizyme Fuel	
alpha-amylase	Novozymes	Liquozyme SC DS	
sodium acetate trihydrate	any chemical supplier		reagent grade
acetic acid	any chemical supplier		reagent grade
190 proof (95%) ethanol	any chemical supplier		reagent grade
hoppers	Freeslate		
96-well C-276 Hastelloy plates	Aspen Machining (Lafayette, Colorado)	N/A (custom built)	
1/8" soldering iron tip	Sears		
silicone-adhesive backed Teflon tape	3M	5180	3" wide (36-yard rolls)
enzyme solution	Novozymes		Cellic CTec2
citric acid monohydrate	any chemical supplier		
trisodium citrate dihydrate	any chemical supplier		
disposable, polystyrene 96-well plates	Greiner Bio-One	655101	or equivalent; multiple suppliers available
glucose oxidase/peroxidase	Megazyme	K-Gluc	Megazyme D-glucose assay kit
xylose dehydrogenase	Megazyme	K-Xylose	Megazyme D-xylose assay kit
glucose standard solution	Megazyme	K-Gluc	Megazyme D-glucose assay kit
xylose standard solution	Megazyme	K-Xylose	Megazyme D-xylose assay kit
stainless steel sample cups	Frontier Laboratories	PY1-EC80F	
glass fiber sheets	Pall	66227	8x10" sheets; circles punched with standard hole punch
Sugarcane Bagasse Whole Biomass Feedstock	NIST	8491	
Eastern Cottonwood (poplar) Whole Biomass Feedstock	NIST	8492	
Monterey Pine Whole Biomass Feedstock	NIST	8493	

Wheat Straw Whole Biomass Feedstock	NIST	8494	
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