

Materials List for:

Precise, High-throughput Analysis of Bacterial Growth

Masaomi Kurokawa¹, Bei-Wen Ying^{1,2}

¹Graduate School of Life and Environmental Sciences, University of Tsukuba

²Institute of Biology and Information Science, East China Normal University

Correspondence to: Bei-Wen Ying at ying.beiwen.gf@u.tsukuba.ac.jp

URL: <https://www.jove.com/video/56197>

DOI: [doi:10.3791/56197](https://doi.org/10.3791/56197)

Materials

Name	Company	Catalog Number	Comments
K ₂ HPO ₄	Wako	164-04295	
KH ₂ PO ₄	Wako	166-04255	
(NH ₄) ₂ SO ₄	Wako	019-03435	
MgSO ₄ ·7H ₂ O	Wako	138-00415	
Thiamine-HCl	Wako	201-00852	
glucose	Wako	049-31165	
HCl	Wako	080-01066	
Iron (II) sulfate heptahydrate (FeSO ₄ ·7H ₂ O)	Wako	094-01082	
KOH	Wako	168-21815	
Glycerol	Wako	075-00611	
Centrifuge tube (50 mL, sterilized)	WATSON	1342-050S	
Pipette Tips, 200 µL	WATSON	110-705Y	
Pipette Tips, 1,000 µL	WATSON	110-8040	
Microtube (1.5 mL)	WATSON	131-715C	
8 multichannel-pipette	WATSON	NT-8200	
PASORINA STIRRER	AS ONE	2-4990-02	
Glass cylinder (200 mL)	AS ONE	1-8562-07	
Precision pH meter	AS ONE	AS800 / 1-054-01	
Pipetman P-200	GILSON	1-6855-05	
Pipetman P-1000	GILSON	1-6855-06	
Disposable Serological Pipettes (10 mL)	SANPLATEC	SAN27014	
Disposable Serological Pipettes (25 mL)	SANPLATEC	SAN27015	
Microtube stand	BM Bio	801-02Y	
Vortex	BM Bio	BM-V1	
Corning Costar 96-well microplate with lid (Flat bottom, Clear)	Sigma-Aldrich	Corning, 3370	
Corning Costar reagent reservoir (50 mL)	Sigma-Aldrich	Corning, 4870	
Stericup GV PVDF (250 mL, 0.22 µM)	Merck Millipore	SCGVU02RE	
Pipet-Aid XP	DRUMMOND	4-000-101	
Bioshaker (BR-23UM MR)	TAITEC	0053778-000	
Disposal cell (1.5 mL)	Kartell	1938 / 2-478-02	

DU 730 Life Science UV/Vis Spectrophotometer	Beckman Coulter	A23616	
EPOCH2	BioTek	2014-EP2-002 / EPOCH2T	
Beaker (500 mL)	IWAKI	82-0008	
BIO clean bench	Panasonic	MCV-B131F	
Glass tubes	NICHIDEN RIKI GLASS	P-10M~P-30 /101019	
Silicone rubber stoppers	ShinEtsu Polymer	T-19	
Bacterial strains	Strain bank organization; National Bio Resource Project (NBRP) in Japan		