

Materials List for:

Growing Magnetotactic Bacteria of the Genus *Magnetospirillum*: Strains MSR-1, AMB-1 and MS-1

Lucas Le Nagard¹, Viviana Morillo-López², Cecile Fradin¹, Dennis A. Bazylinski²

¹Department of Physics & Astronomy, McMaster University

²School of Life Sciences, University of Nevada Las Vegas

Correspondence to: Cecile Fradin at fradin@physics.mcmaster.ca

URL: <https://www.jove.com/video/58536>

DOI: [doi:10.3791/58536](https://doi.org/10.3791/58536)

Materials

Name	Company	Catalog Number	Comments
AMB-1	American Type Culture Collection (ATCC)	ATCC 700264	
MS-1	ATCC	ATCC 31632	
MSR-1	Deutsche Sammlung von Mikroorganismen und Zellkulturen (DSMZ)	DSM 6361	
Ferric citrate	Sigma-Aldrich	F3388-250G	
Trace mineral supplement	ATCC	MD-TMS	
KH ₂ PO ₄	EMD	PX1565-1	
MgSO ₄ ·7 H ₂ O	EMD	MX0070-1	
HEPES	BioShop Canada Inc	HEP001.250	
NaNO ₃	Sigma-Aldrich	S5506-250G	
Yeast extract	Fischer scientific	DF210929	
Peptone	Fischer scientific	DF0436-17-5	
Potassium L-lactate solution (60%)	Sigma-Aldrich	60389-250ML-F	
D-(-)-Quinic acid	Sigma-Aldrich	138622	
FeCl ₃ ·6H ₂ O	Fischer scientific	I88-100	
Vitamin supplement	ATCC	MD-VS	
Sodium succinate hexahydrate	Fischer scientific	S413-500	
Sodium L-tartrate dibasic dihydrate	Sigma-Aldrich	228729-100G	
Sodium acetate trihydrate	EMD	SX0255-1	
Resazurin	Difco	0704-13	
Ascorbic acid	Sigma-Aldrich	A4544-25G	
K ₂ HPO ₄	Caledon	6620-1-65	
FeCl ₂ ·4H ₂ O	Sigma-Aldrich	44939-250G	
Sodium bicarbonate	EMD	SX0320-1	
NaCl	Caledon	7560-1	
NH ₄ Cl	EMD	1011450500	
CaCl ₂ ·2 H ₂ O	EMD	1023820500	
Agar A	Bio Basic Canada Inc	FB0010	
L-cysteine.HCl.H ₂ O	Sigma-Aldrich	C7880-100G	
1.0 mL syringes	Fischer scientific	B309659	
25G x 1 needles	BD	305125	

125 mL serum bottles	Wheaton	223748	
20 mm aluminum seals	Wheaton	224223-01	
20mm E-Z Crimper	Wheaton	W225303	
Butyl-rubber stoppers	Bellco Glass, Inc.	2048-11800	
Hungate tubes	Chemglass (VWR)	CLS-4208-01	
Septum stopper, 13mm, Hungate	Bellco Glass, Inc.	2047-11600	
Glass culture Tubes	Corning (VWR)	9826-16X	
Hydrochloric acid 36.5-38%, BioReagent	Sigma-Aldrich	H1758-100ML	11.6 - 12 N