

Application of Flow Vermimetry for Quantification and Analysis of the *Caenorhabditis elegans* Gut Microbiome

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Materials

Name	Company	Catalog Number	Comments
15 mL conical bottom centrifuge tubes	VWR	10026-076	
96 deep-well plates (1 mL)	Axygen	P-DW-11-C	
96 deep-well plates (2 mL)	Axygen	P-DW-20-C	
96-well Costar plate	Corning	3694	
Agar	Millipore Sigma		Standard bacteriology agar is also sufficient.
Aspirating manifold	V&P scientific	VP1171A	
Bleach	Clorox		
Bleach solution			Mix Bleach with 5M Sodium hypochlorite 2:1 (v/v)
Cell Imaging Multimode Reader	Biotek	Cytation 5	Bacterial OD measurement
Centrifuge	Thermo scientific	Sorvall Legend XTR	For 96 well plate and conical tubes
Fluorescent Microscope	Nikon	TiE	
ggplot: Various R Programming Tools for Plotting Data.	R package	Version 3.3.2	
Large Particle Autosampler	Union Biometrica	LP Sampler	
Large Particle Sorter	Union Biometrica	COPAS Biosorter	
Levamisole	Fisher	AC187870100	
Lysogeny Broth (LB)	RPI	L24066	Standard LB home-made recipes using Bacto-tryptone, yeast extract, and NaCl are also sufficient.
M9 solution			22 mM KH ₂ PO ₄ monobasic, 42.3 mM Na ₂ HPO ₄ , 85.6 mM NaCl, 1 mM MgSO ₄
Nematode Growth Medium	RPI	N81800-1000.0	1 mM CaCl ₂ , 25 mM KPO ₄ pH 6.0, 1 mM MgSO ₄ added after autoclaving.
RStudio	GNU	Version 1.3.1093	
Sodium hypochlorite	Sigma-Aldrich		5M NaOH

Stereo Microscope	Nikon	SMZ745	
Sterile 10 cm diameter petri dishes	Corning	351029	
Sterile 12-well plates	VWR	10062-894	
Sterile 24-well plates	VWR	10062-896	
Sterile 6 cm diameter petri dishes	Corning	351007	
Triton X-100	Sigma-Aldrich	T8787	