

# Models of Murine Vaginal Colonization by Anaerobically Grown Bacteria

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## Materials

Name	Company	Catalog Number	Comments
β-estradiol 17-valerate	Sigma	E1631	estrogenization of mice
0.22 μm, 50 mL Steriflip vacuum filter	Fisher	SCGP00525	sterile filtering sesame oil
14 mL tube	Falcon	352059	estrogenization of mice
190-proof ethanol	Koptec	V1105M	dissection, tissue homogenization, CDC and Columbia media
1x PBS	Fisher	MT21040CM	vaginal lavage, <i>G. vaginalis</i> inoculum prep, tissue collection and homogenization
25 G × 5/8 -in needle	BD	305122	estrogenization of mice
5 mL tube	Falcon	352063	Tissue collection and homogenization
Anaerobic chamber	Coy	7200000	Growth of anaerobic bacteria
Bacto agar	Fisher	DF0140074	<i>G. vaginalis</i> , <i>F. nucleatum</i> , and <i>P. bivia</i> agar plates
Bacto peptone	Fisher	DF0118170	CDC anaerobic media for <i>P. bivia</i> growth
Columbia broth	Fisher	DF0944170	Columbia media for <i>F. nucleatum</i> growth
Defibrinated sheep blood	Hemostat	DSB500	CDC anaerobic media for <i>P. bivia</i> growth
Forceps	Fine Science Tools	11008-13	mouse/tissue dissection
Glucose	Sigma	G7528	NYCIII media for <i>G. vaginalis</i> growth
Handheld homogenizer	ISC Bio	33055500	Tissue homogenization
Hemin	Sigma	51280	CDC anaerobic media for <i>P. bivia</i> growth, Columbia media for <i>F. nucleatum</i> growth
HEPES	Cellgro	25-060-CI	NYCIII media for <i>G. vaginalis</i> growth
Horse serum	Hemostat	SHS500	NYCIII media for <i>G. vaginalis</i> growth
Hydrogen gas mix (5% hydrogen, 10% CO <sub>2</sub> , 85% nitrogen)	Matheson		Gas for anaerobic chamber

Isofluorane	VetOne	502017	mouse anaesthesia at sacrifice
L-cysteine	Sigma	C1276	CDC anaerobic media for <i>P. bivia</i> growth
L-glutamate	Sigma	G1626	CDC anaerobic media for <i>P. bivia</i> growth
Milli-Q Water Purifier	Millipore	IQ-7000	for making media and homogenization
NaCl	Sigma	S3014	NYCIII media for <i>G. vaginalis</i> growth
NaOH tablets	Sigma	S5881	CDC anaerobic media for <i>P. bivia</i> growth
Nitrogen gas	Airgas		Gas for anaerobic chamber
p-200 filter tips	ISC Bio	P-1237-200	vaginal lavages and bacterial inoculations
pancreatic digest of casein	Sigma	70169	CDC anaerobic media for <i>P. bivia</i> growth
Proteose peptone #3	Fisher	DF-122-17-4	NYCIII media for <i>G. vaginalis</i> growth
Scissors	Fine Science Tools	14084-08	mouse/tissue dissection
Sesame oil	Fisher	ICN15662191	estrogenization of mice
Single edge surgical carbon steel razor blades	VWR	55411-050	tissue dissection
Sodium chloride	Sigma	S3014	CDC anaerobic media for <i>P. bivia</i> growth
Spectrophotometer	BioChrom	80-3000-45	measuring bacterial OD600
Streptomycin	Gibco	11860038	add to agar media to make selective plates
Tuberculin slip tip 1ml syringe	BD	309659	estrogenization of mice
Vitaim K3	Sigma	M5625	Columbia media for <i>F. nucleatum</i> growth
Vitamin K1	Sigma	95271	CDC anaerobic media for <i>P. bivia</i> growth
Yeast extract	Fisher	DF0127-17-9	NYCIII media for <i>G. vaginalis</i> growth