

Materials List for:

Ex Vivo Infection of Human Lymphoid Tissue and Female Genital Mucosa with Human Immunodeficiency Virus 1 and Histoculture

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Materials

Name	Company	Catalog Number	Comments
Gelfoam 12-7 mm Absorbable gelatin sponge	Pfizer	NDC: 0009-0315-08	Gelfoam and Spongostan perform equally well in histoculture for both tonsillar and cervical tissue.
SPONGOSTAN Standard 70 × 50 × 10 mm Absorbable haemostatic gelatin sponge	Ferrosan Medical Devices	MS0002	Gelfoam and Spongostan perform equally well in histoculture for both tonsillar and cervical tissue.
RPMI 1640 with phenol red and glutamine	ThermoFisher Scientific	21875034	To RPMI1640 add MEM non-essential aminoacids, sodium pyruvate, gentamicin, amphotericin B and FBS 15% (v/v) to make culture medium (CM).
Modified Eagle's medium (MEM) non-essential aminoacids (100x)	ThermoFisher Scientific	11140035	To RPMI1640 add MEM non-essential aminoacids, sodium pyruvate, gentamicin, amphotericin B and FBS 15% (v/v) to make culture medium (CM).
Sodium pyruvate, 100 mM (100x)	ThermoFisher Scientific	11360070	To RPMI1640 add MEM non-essential aminoacids, sodium pyruvate, gentamicin, amphotericin B and FBS 15% (v/v) to make culture medium (CM).
Gentamicin 50 mg/mL (1000x)	ThermoFisher Scientific	15750037	To RPMI1640 add MEM non-essential aminoacids, sodium pyruvate, gentamicin, amphotericin B and FBS 15% (v/v) to make culture medium (CM).
Amphotericin B 250 µg/mL (100x)	ThermoFisher Scientific	15290018	To RPMI1640 add MEM non-essential aminoacids, sodium pyruvate, gentamicin, amphotericin B and FBS 15% (v/v) to make culture medium (CM).
Fetal bovine serum (FBS)			To RPMI1640 add MEM non-essential aminoacids, sodium pyruvate, gentamicin, amphotericin B and FBS 15% (v/v) to make culture medium (CM).
Ticarcillin disodium salt	Sigma-Aldrich	T5639-1G	Resuspend in sterile cell culture grade water ticarcillin disodium (3 g) and potassium clavulanate (100 mg) and mix to obtain 100 mL of antibiotic solution (100x). Aliquote and store at -20 °C. Avoid repeated freezing and thawing. Supplement CM with antibiotic solution to make CMT.

Potassium clavulanate	Sigma-Aldrich	33454-100MG	Resuspend in sterile cell culture grade water tircacillin disodium (3 g) and potassium clavulanate (100 mg) and mix to obtain 100 mL of antibiotic solution (100x). Aliquote and store at -20 °C. Avoid repeated freezing and thawing. Supplement CM with antibiotic solution to make CMT.
Sterile phosphate buffer saline (PBS) pH 7.4 w/o calcium, magnesium and phenol red			To use for storage and transportation of surgical specimens. PBS can be replaced with another isotonic solution with physiologic pH. Culture medium is best for overnight storage.
Sterile cell culture grade water			
Sterile transportation container			
70% ethanol solution			
Disinfectant solution for biological waste disposal			
Sterile metal forceps or tweezers			
Sterile metal scissors			
Sterile flat weighing metal spatula			
Sterile scalpels and blades			
6-well cell culture plates			
12-well cell culture plates			
Sterile Petri dish, 100 mm × 20 mm			
Cell-free HIV-1 viral preparation HIV-1 _{BaL}	NIH AIDS Reagent Program	510	The virus should be propagated to generate a stock large enough to perform several experiments. Aliquote virus suspension and store at -80 °C. Avoid repeated freezing and thawing.
Cell-free HIV-1 viral preparation HIV-1 _{LAI.04}	NIH AIDS Reagent Program	2522	The virus should be propagated to generate a stock large enough to perform several experiments. Aliquote virus suspension and store at -80 °C. Avoid repeated freezing and thawing.
Lamivudine (3TC)	NIH AIDS Reagent Program	8146	Resuspend in DMSO at 10 mg/mL, aliquote and store at -20 °C. Avoid repeated freezing and thawing.
Biological safety cabinet			
Water-jacketed CO ₂ incubator, set at 37 °C, 5% CO ₂ , ≥ 90% humidity			
Water bath set at 37 °C			
Sterile 1.5 and 2mL screw cap tubes			
Dry bath shaker with heating block for 1.5 mL tubes, set at 37 °C, 300 rpm			