

Materials List for:

# Bronchoalveolar Lavage (BAL) for Research; Obtaining Adequate Sample Yield

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## Materials

Name	Company	Catalog Number	Comments
Fiberoptic bronchoscope, light, and suction source	unspecified		
Surgical gown, sterile gloves	unspecified		
Sphygmomanometer	unspecified		For continuous patient monitoring
Pulse oximeter	unspecified		For continuous patient monitoring
3-lead ECG monitor	unspecified		For continuous patient monitoring
Nasal oxygen delivery 2-4 L/min	unspecified		
Lidocaine 10% spray (Xylocaine)	AstraZeneca		For topical anesthesia
Lidocaine hydrochloride 2%	unspecified		For topical anesthesia
Lidocaine gel (Instillagel)	Farco-Pharma, Germany		Alternative products available from other suppliers
Normal saline, sterile, 200 ml	unspecified		Warm to 30 °C
10 ml taper-end syringe (x10)	unspecified		For administration of lidocaine
Intravenous cannula 18 G	unspecified		For administration of midazolam
Midazolam	unspecified		For sedation
Flumazenil	unspecified		Reversal of benzodiazepine sedation (emergency use only)
60 ml taper-end syringes (x4)	unspecified		For normal saline injection and BAL fluid withdrawal.  May require connector to attach to the injection port of the bronchoscope.

Sterile gauze swab	Vernaid, UK		Alternative products available from other suppliers
Sterile container for BAL fluid	See text and comments		Siliconized glass bottles reduce macrophage adherence. Alternatively, 50 ml centrifuge tubes may be used (total capacity 200 ml)
Sigmacote	Sigma, UK	SL2	Only if siliconised glass bottles used. NB: Harmful and flammable. If used, follow precautions detailed in manufacturer's MSDS
Centrifuge	unspecified		At least 4 x 50 ml tube capacity. Refrigeration to 4 °C preferred.
Shandon Cytospin centrifuge	Thermo Scientific, UK		For differential count only
RPMI 1640 medium with L-glutamine	Sigma, UK	R8758	Alternative products available from other suppliers
Fetal bovine serum	Sigma, UK	F6178	Alternative products available from other suppliers
Penicillin-Streptomycin	Sigma, UK	P4333	Alternative products available from other suppliers
Amphotericin B	Sigma, UK	A2942	Alternative products available from other suppliers
Tissue culture plates	Greiner Bio-One, UK	662160	Alternative products available from other suppliers
Glass microscope slides	unspecified		For differential count only
Shandon cytofunnel	Thermo Scientific, UK	A78710003	For differential count only
Shandon cytoclip	Thermo Scientific, UK	59910052	For differential count only
Hemacolor staining set (fixative, red and blue reagents)	Merck, Germany	111661	Use according to manufacturer's instructions