

Sherlock® Mycobacteria Identification System Equipment and Consumables List

Purpose

To provide a complete list of all the necessary laboratory equipment, reagents and supplies needed for operation of the Sherlock Mycobacteria Identification System. Most items should be readily available from your standard laboratory supplies providers. Substitutions may be made for the recommended items, but you should assure that the materials are equivalent.

Important Information

If you have problems obtaining any of the following, please contact MIDI, Inc. for assistance. The sources listed are U.S. sources. Depending on your country, local part # may vary. Part numbers are listed for convenience only. No endorsement is implied.

ITEM	SOURCE	PART NUMBER
<u>Extraction/Sample Preparation</u>		
0.5-5ml BrandTech Dispensette bottle-top dispensers, Brand Tech Scientific # 4701131 (for Reagents 1 and 2)	Fisher	13-688-227
0.5-5ml BrandTech Dispensette organic bottle-top dispenser, Brand Tech Scientific # 4731131 (for Reagent 3)	Fisher	13-688-270
MicroZippette 100/250 µL, Cat # 268-005N (for Reagent 4 and 5)	VWR	53410-004
72-place tube holder (13mmx100 mm tube rack)	Fisher	14-793-14
Pasteur Pipette Bulb (24)	Fisher	03-448-26
Pasteur Pipettes 5 ¾	Fisher	13-678-20B
Borosilicate Glass Tubes - Threaded End (13x100mm) - 1000 count	Fisher	14-959-35C
Phenolic Caps	Fisher	14-930-15D
Borosilicate Glass Tubes (13x100mm) - 1000 count	Fisher	14-961-27
Brinkman Eppendorf Series Pipettors 10µl - 100µl	Fisher	05-402-48
epitips Reloads: 2 µL to 200 µL, refill 10 x 96	Fisher	05-403-41
Brinkman Eppendorf Series Pipettors 100µl – 1ml	Fisher	05-402-50
epitips Reloads: 50 µL to 1000 µL, refill 10 x 96	Fisher	05-403-43
Vial rack – 50 Spaces	Fisher	03-375-9
Multi-tube Vortexer (120 V)	VWR	58816-115
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MIDI N2 Evaporator	MIDI	MIDI-VAP
-- OR --		
Pierce Reacti-therm Heating Module*	Pierce	Contact Vendor
Pierce Reacti-vap Evaporator*	Pierce	Contact Vendor
Pierce Reacti-Block S-1	Pierce	Contact Vendor
Pierce Reacti-Block A-1 (Optional)	Pierce	Contact Vendor
*Consult Vendor for Additional Size configurations		
-- OR --		
Labconco Rapid-Vap Vacuum/vortex heat evaporator with lid heater and corrosion-proof vacuum pump	Labconco	Contact Vendor
Labconco Sample Block	Labconco	Contact Vendor

ITEM	SOURCE	PART NUMBER
<u>Chemicals</u>		
Methanol, case (HPLC Grade, ACS Certified)	Fisher	A452-4
2-Propanol, case (HPLC Grade, ACS Certified)	Fisher	A451-4
HCL (.5L, concentrated 36% – 38%) (ACS Grade)	Fisher	A144-500
Chloroform (1L) (HPLC Grade, ACS Certified)	Fisher	C606-1
Potassium Hydroxide (KOH 500g) (ACS Grade)	Fisher	P250-500
Potassium Hydrogen Carbonate (KHCO ₃ 500g) (ACS Grade)	Fisher	P184-500
4 - (Bromomethyl) – 6,7 dimethoxycoumarin (F.W. = 299.1)	Aldrich	30, 145-0
18-crown-6-ether (F.W. = 264.3)	Sigma	C5515
<u>Glass/Plastic/Other</u>		
2.0ml Amber Vials (1000 pack)	Restek	21143
250 µl Glass insert with spring (100 pack)	Restek	21776
2.0 ml Clear Vials (100 pack)	Restek	21154
Short Screw Caps with Liners (1000 pack)	Restek	24498
Purge Valve Frit (5)	Agilent	01018-22707
MIDI Certified, SB-C18 Zorbax Column 4.6mmx75mm 3.5µm pore size	MIDI	COLUMN L
N ₂ tank/regulator or Air tank/regulator (Note: Only required with the Pierce Evaporating System)	Local Vendor	
Gas Drying Unit (Note: Only required with the Pierce Evaporating System)	VWR	26668-007
Chemical Fume Hood or Ductless Fume Hood	Local Vendor	
Sterile Applicators (1000) for harvesting	Thomas Scientific	1132H05
MIDI Calibration Standard	MIDI	1500-A
MIDI Internal Standard	MIDI	1600-A
<u>Media</u>		
Middlebrook and Cohn 7H10 Agar (BD # 221174)	Fisher	B21174x
Lowenstein Jensen Slants (BD # 221388)	Fisher	BB21388
<u>Quality Control Organisms</u>		
<i>Mycobacterium gordonae</i>	ATCC	14470
<i>Candida albicans</i>	ATCC	60193