

NATIONAL INSTITUTES OF HEALTH
Institute of Molecular Biology and Biotechnology

Laboratory Equipment

width: left to right

depth: front to back

Do not include clearances; Describe required clearances in remarks.

Utility Legend

SP = Special Plug Type

PW = Purified Water

HE = Helium

Specialty Gases Legend

GI = CO₂

G1 = N₂

G2 = Natural Gas

G3 = O₂

G4 = Suction (Patient Care)

G5 =

EP = Emergency Power

CA = Compressed Air

N2 = Nitrogen

UPS = Uninterruptible Power

VAC = Vacuum

ChW = Chilled Water

ALR = Alarm

EXH = Local Exhaust

CS = Clean Steam

CW = Cold Water

HV = High Vacuum

STM = Steam

HW = Hot Water

Eq No.	Description	Qty	Extg Fut	Dimensions (mm)			Electrical								Utilities and Gases														
				W	D	H	Volts	Amps	Watts	Phase	SP	EP	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	G1	G2	G3
1																													
1	PCR cabinet	2	F	1379.22	793	1568	220	6					x																
2	Real time PCR	2	F	330	460	200	250	8					x	x															
3	Real time PCR	1	F	397	420	288	250	8					x	x															
4	Real time PCR	1	ar reso	340	450	490	250	8					x	x															
5	PCR machine	2	F	330	460	200	230	8					x	x															
6	PCR machine	1	F	330	262	220	230	8					x	x															
7	DNA electrophoresis set up	2	F	300	300	50	230	8					x	x															
8	PFGE	1	F	200	200	50	220	4					x	x															
9	Gel documentation apparatus	1	F	750	750	1000	230	6																					
10	PCR cabinet	2	F	1379.22	793	1568	220	6					x																
11	Computer server	1	F	440	712	173	220	10					x	x	x	x													
12	Computer cluster (10 desktop computers)	10	F	750	750	100	220	10					x	x	x	x													
13	ultralow freezers	3	F	643	584	1310	220	12					x	x	x	x													
14	Freezers (-20oC)	3	F	750	750	1200	220	10					x	x	x	x													
15	Pharmaceutical refrigerator	3	F	750	750	1200	220	10					x	x	x	x													
16	Benchtop Sequencer	1	F	686	563	523	220	10					x	x	x	x													
17	Mass Spectrometer	1	F	pec room									x	x	x	x													
18	High pressure liquid chromatograph	2	F	750	600	1000	220	10					x	x	x	x													
19	Fumehood	1	F	1830	843	1500	220	5					x	x															
20	Biosafety cabinet	2	F	2006	812	2717	220	8					x	x															
21	Upright autoclave	1	F	750	750	1400	220	12					x	x	x														
22	Lyophilizer for bacterial cultures	1	F	lab BSL2 (F)									x	x															
23	Lyophilizer for PCR mix	1	F	1500	600	1300	220	12					x	x															x
24	Biosafety cabinet level 2	1	F	1972	835	1530							x	x															
25	Passthrough autoclave	1	F	700	700	400	220	12					x	x															
26	Incubator	4	F	470	260	415							x	x															
27	ultralow freezer	1	F	643	584	1310	220	12					x	x	x	x													
28	Freezers (-20oC)	1	F	750	750	1200	220	10					x	x	x	x													
29	Pharmaceutical refrigerator	1	F	750	750	1200	220	10					x	x	x	x													
30	Biosafety cabinet level 3	1	F	1972	835	1530	220	10					x	x															

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UPS = Uninterruptible Power	VAC = Vacuum	ChW = Chilled Water	G3 = O ₂
ALR = Alarm	EXH = Local Exhaust	CS = Clean Steam	G4 = Suction (Patient Care)
CW = Cold Water	HV = High Vacuum	STM = Steam	G5 =
HW = Hot Water			

Laboratory Planning

Laboratory Equipment

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Eq No.	Description	Qty	Extg Fut	Dimensions (mm)			Electrical							Utilities and Gases																
				W	D	H	Volts	Amps	Watts	Phase	SP	EP	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	G1	G2	G3	G4
31	Inverted microscope	1	F	ulture lab										x	x															
32	Multimode plate reader	1	F	ulture lab										x	x															
33	digital circulating water bath	1	F	510	1140	300	220	8						x	x															
34	digital circulating water bath	1	F	510	1140	300	220	8						x	x															
35	digital circulating water bath	1	F	510	1140	300	220	8						x	x															
36	CO ₂ incubator	1	F	470	260	415	220	8						x	x													x		
37	Biosafety cabinet level 2	1	F	1972	835	1530	220	8						x	x															
38	Biosafety cabinet level 2	1	F	1972	835	1530	220	8						x	x															
39	digital circulating water bath	1	F	510	1140	300	220	8						x	x															
40	Liquid handling machine	1	F	1340	876	345	220	5																						