

ATTACHMENT 2 - Maintenance and Calibration Requirements for Equipment Commonly Used in Research Biorepositories

Item	Maintenance required	Verification of function
Autoclaves	Cleaning, pressure vessel, system of	Manufacturers; service
	surveillance, maintenance contract as required;	
	run with indicators	
Incubators	Cleaning, system of surveillance, maintenance	Manufacturers' standard on
	contract as required	service, temperature
		calibration
Liquid nitrogen	Cleaning, leakage, pressure, temperature check	Five yearly Manufacturer's
storage vessels		Test
Centrifuges	Cleaning, system of surveillance, maintenance	Regular cleaning,
	contract as required	Manufacturer's service
Cryo-storage tanks	Removal of condensation and ice, look for	
	malfunction of liquid nitrogen level alarms	
Liquid nitrogen store	System of surveillance, maintenance contract as	Manufacturers' standard on
oxygen level alarm	required	service
Liquid nitrogen level	Look for malfunction	None
alarms		
Programmed Cooler	System of surveillance, maintenance contract as	None
	required	
Cryomicroscope	Clean after use, temperature calibration	Calibration equipment
		provided for test at each time
		of use
Spin and self-freeze-	System of surveillance, maintenance contract as	Calibration of the vacuum
drier	required	gauge
Microtome	Clean after use	
Microscopes	Clean after use, system of surveillance,	
	maintenance contract as required	
Laminar Flow Cabinet	Clean after use, airflow, particle count	Annual functionality test
Class II	Clean after use, system of surveillance,	Manufacturers' standard on
Microbiological Safety	maintenance contract as required, particle	service
Cabinet	count, KI test	
DNA Extractor	Clean after use	Manufacturers' standard on
		service
-20°C Freezer	Temperature check	Temperature calibration
-80°C Freezer	Temperature check and registration, system of	Manufacturers' standard on
	surveillance, maintenance contract as required,	service, temperature
	security advices, clean	calibration
Media preparation	Clean after use	
equipment		
Balance	Clean after use, system of surveillance,	Manufacturer's standard on
	maintenance contract as required	service
pH Meter	Clean after use	Test against Manufacturers'
		standard
Computers	Firewall, safeguard	

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