

## HTM2010 Porous Load - Quarterly Tests

Rev: 1:3.0022					Porous Load Quarterly Summary				
<b>Authority</b>									
<b>Hospital</b>									
<b>Department</b> HSDU									
<b>Date of Report</b> 16/03/2009 15:30:33				<b>Dates of Tests</b>			15/03/2009		
<b>Steriliser</b>	<b>Manufacturer</b>			ACE					
	<b>Serial Number</b>			J011202					
	<b>Reference number</b>			Number 3					
	<b>Model</b>			Porous Load					
	<b>Usable Chamber Space</b>			21 cu/ft			litres		
<b>Date of Manufacture</b>			02/02						
<b>Service Provider</b>		L.T.E. Scientific Ltd							
Results of Quarterly Tests									
Tests as Specified in HT2010		Ref	Pass/Fail	Cycle No.	Result				
Safety checks		5.8	Pass	N/A					
Vacuum leak test (before sensors)		11.2	Pass	12221	Leak rate		0.2 mba		
Vacuum leak test (sensors inserted)		11.2	Pass	12222	Leak rate		0.3 mba		
Automatic control test		12.1	Pass	12223	ST selected	134.0 °C	ST hold time	3 Min	
Verification of calibration		12.2	Pass	12223	See below				
Thermometric test small load		13.7	Pass	12223	See below				
Performance Re-Qualification		8.64	Pass	12224	See below				
Vacuum leak test (sensors removed)		11.2	Pass	12226	Leak rate		0.5 mba		
Air detector function test		11.60	Pass	12227	Air Detector Setting		10.0 mbar		
Bowie-Dick test for steam penetration		13.39	Pass	12228	Type of Test Pack		3METS		

**HTM2010 Porous Load - Quarterly Tests**

**List of Calibrated Equipment**

Data Logger		Heat Source	
Manufacturer	Fluke	Manufacturer	Isotech
Model	NetDAQ	Model	Fast-Cal
Serial No.	LTE-LOG16MB	Serial No.	LT335
Calibration House	N/A	Calibration House	N.T.P.L.
Cert No.	N/A	Cert No.	08-10-39
Renew date	N/A	Renew date	22/10/09
Temp Ref Probe		Pressure Calibrator	
Manufacturer	Isotech	Manufacturer	GE Druck
Model	Fast-Cal Indicator	Model	DP1103
Serial No.	LT335	Serial No.	DPVTG2A
Calibration House	N.T.P.L.	Calibration House	Dowding & Mills
Cert No.	08-10-39	Cert No.	MC34600001
Renew date	22/10/09	Renew date	28/05/09

**Quarterly Safety Checks**

Safety Check	Completed	Comments
Safety valve(s) operation	Yes	
Condition of door seal	Yes	
Door interlocking mechanism	Yes	
Door interlock pressure operation	Yes	
Door steam generation / admission interlock	Yes	
Housekeeping	Yes	
Daily record check	N/A	
Weekly record check	N/A	
Quarterly maintenance	Yes	
	N/A	
	N/A	
	N/A	
<b>Results</b>	<b>Pass</b>	

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**Vacuum Leak Rate Test**

	Before insertion of test Instruments.	After insertion of test Instruments.	After removal of test Instruments.
Cycle Number	12221	12222	12226
Absolute Gauge Reading (Pump stopped)	31 mbar	32 mbar	29 mbar
Absolute Gauge Reading after 5 minutes	38 mbar	36 mbar	35 mbar
Absolute Gauge after further 10 minutes	40 mbar	39 mbar	40 mbar
Rise in Pressure between Readings	2.0 mbar	3.0 mbar	5.0 mbar
Vacuum Leak Rate	0.2 mbar\min	0.3 mbar\min	0.5 mbar\min
State PASS/FAIL	Pass	Pass	Pass

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Rev. 1.3.0011 Verification of Calibration of Sterilizer Instruments			
			Cycle No. 12223
Values at approximate mid point of Plateau	Autoclave Reading	Measured Value	Error
Indicated Chamber Temperature	135.4 °C	135.72 °C	-0.3 °C
Recorded Chamber Temperature	135.4 °C		-0.3 °C
Indicated Chamber Pressure	3190 mba	3185 mba	5 mba
Recorded Chamber Pressure	3161 mba		-24 mba
Indicated Jacket Pressure	3243 mba	<b>Result</b>	<b>Pass</b>

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Rev. 1.3.0011 Verification of Calibration of Sterilizer Instruments			
			Cycle No. 12224
Values at approximate mid point of Plateau	Autoclave Reading	Measured Value	Error
Indicated Chamber Temperature	122.8 °C	122.90 °C	-0.1 °C
Recorded Chamber Temperature	122.5 °C		-0.4 °C
Indicated Chamber Pressure	2152 mba	2151 mba	1 mba
Recorded Chamber Pressure	2158 mba		7 mba
Indicated Jacket Pressure	2149 mba	<b>Result</b>	<b>Pass</b>

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Rev. 1:2.0010 Porous Load Automatic Control Test							
Cycle No.	12223	Sterilisation Temp	134.0 °C	Quarterly		Validation	
<b>Air Removal</b>	Negative Pulsing	Minimum Vacuum		N/A mba	N/A		
		Maximum Vacuum		N/A mba	N/A		
		Number		N/A	N/A		
		Duration		N/A hh:mm:ss	N/A hh:mm:ss		
	Positive Pulsing	Minimum Pressure		1063 mba	N/A		
		Maximum Pressure		2024 mba	N/A		
		Number		6	N/A		
		Duration		00:03:29 hh:mm:ss	N/A hh:mm:ss		
<b>Steam Admission and Sterilizing</b>	Time to Attain Sterilising			00:13:14 hh:mm:ss	N/A hh:mm:ss		
	Heat Up Time			00:01:08 hh:mm:ss	N/A hh:mm:ss		
	Indicated Pressure	Start		3126 mba	N/A		
		Mid		3190 mba	N/A		
		Max		3190 mba	N/A		
		End		3174 mba	N/A		
	Indicated Temperature	Start		134.8 °C	N/A		
		Mid		135.4 °C	N/A		
		Max		135.7 °C	N/A		
		End		135.7 °C	N/A		
	Recorded Pressure	Start		3107 mba	N/A		
		Mid		3161 mba	N/A		
		Max		3167 mba	N/A		
		End		3155 mba	N/A		
	Recorded Temperature	Start		134.5 °C	N/A		
		Mid		135.4 °C	N/A		
		Max		135.4 °C	N/A		
		End		135.3 °C	N/A		
	Measured Pressure	Start		3130 mba	N/A		
		Mid		3181 mba	N/A		
Max			3198 mba	N/A			
End			3182 mba	N/A			
Measured Temperature	Start		135.17 °C	N/A			
	Mid		135.74 °C	N/A			
	Max		135.96 °C	N/A			
	End		135.81 °C	N/A			
Steriliser Hold Time			00:03:14 hh:mm:ss	N/A hh:mm:ss			
<b>Drying</b>	Maximum Vacuum			33 mba	N/A		
	Duration			00:11:12 hh:mm:ss	N/A hh:mm:ss		
<b>Air Admission</b>	Duration			00:02:37 hh:mm:ss	N/A hh:mm:ss		
<b>Total Cycle Time</b>	Duration			00:30:17 hh:mm:ss	N/A hh:mm:ss		
<b>Result</b>					<b>Pass</b>		

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TQReports  
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Rev. 1.2.0010				Thermometric Test for Small Load	
Cycle No.	12223	Sterilisation Temp	134.0 °C	Quarterly	Validation
Start of Plateau Period	Drain	134.20 °C	N/A		
	Load	134.32 °C	N/A		
	Free Space	136.47 °C	N/A		
	Pressure	3052 mba	N/A		
Start of Holding Time	Drain	134.20 °C	N/A		
	Load	134.32 °C	N/A		
	Free Space	136.47 °C	N/A		
	Pressure	3052 mba	N/A		
Mid of Holding Time	Drain	135.82 °C	N/A		
	Load	135.83 °C	N/A		
	Free Space	136.63 °C	N/A		
	Pressure	3187 mba	N/A		
Max Values During Holding Time	Drain	135.96 °C	N/A		
	Load	136.00 °C	N/A		
	Free Space	137.51 °C	N/A		
	Pressure	3198 mba	N/A		
End of Holding Time	Drain	134.54 °C	N/A		
	Load	134.63 °C	N/A		
	Free Space	135.12 °C	N/A		
	Pressure	3047 mba	N/A		
Equilibration time				0:00 mm:ss	N/A mm:ss
Max diff Drain / Free space 1 minute into Plateau Period				2.27 °C	N/A
Max diff Drain / Free space for remainder of Plateau Period				0.99 °C	N/A
Drain Fluctuation				0.22 °C	N/A
Load Fluctuation				0.25 °C	N/A
Max difference between Drain and Load				0.09 °C	N/A
Post vacuum stage time				00:11:41 hh:mm:ss	N/A hh:mm:ss
Pressure at end of vacuum hold				37 mba	N/A
Load sensibly dry				Pass	N/A
Automatic test requirements met				Pass	N/A
Measured Hold Time				00:03:22 hh:mm:ss	N/A hh:mm:ss
Total Cycle Time				00:30:13 hh:mm:ss	N/A hh:mm:ss
<b>Result</b>				<b>Pass</b>	

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Job Ref: Porous 134 @ 3Min  
 Cycle No.: 12223  
 Serial No.: J011202

Service Provider: L.T.E. Scientific Ltd  
 Site Name:  
 Operator:

Test Name: HTM2010 Porous Load 134C  
 Test Date: 16/03/2009  
 Start Time: 11:31:44

