

## PHARMA DEVILS QUALITY ASSURANCE DEPARTMENT

**Document Name:** Performance Qualification Test Datasheet # 3.4 for Lyophilizer

Equipment/ System ID:	Document Number:
Effective Date:	Version Number: 00

Test ID #3.4: S	System Leak rate Test	Test Run:
Target:	The objective of this test is to verify the Lyophilizer can be leak tested in accorda system specification.	ance with the
Necessary materials:	The utility supply of compressed air and cooling water are normal.	
Preconditions:	<ul> <li>Chamber door(s) are closed, and all valves are at their no cycle normal state.</li> <li>Lyophilizer is in Auto mode.</li> </ul>	
Test ID	Test Description	
1	The automatic "performance test" cycle in the control system of the freeze dryer purpose.	is used for this
2	Set the leak test duration of 60 minutes in the performance test picture.	
3	The pressure is measured with the chamber vacuum gauge, recorded automatical performance test procedure.	ly by
4	Calculate the volume of chamber and condenser for calculation of rise in pressure.	
5	The initial pressure taken for calculation of pressure rise should be taken after 01 hour of achieving the set pressure, this is due to time required for stabilization of vacuum.	
6	The result is found in the data in the cycle report and calculate as per Appendix-3.4.1	
7	<b>Rationale:</b> All acceptance criteria are taken considering as per the vendor of specifications. However as per guidelines (Parenteral Inspection Society; Chimaximum acceptable leak rate should not be more than 10 $\mu$ bar.l/sec. But on the design document the acceptance criteria is26 $\mu$ bar.l/s. So, the media fill to be cals same acceptable leak rate as per vendor recommendations. If this process simmedia fill will be passed with this leakage then it will be considered as final a and if any failure found with this leak rate, so a corrective action should be talleak rate.	hapter No. 7) the basis of vendour urried out with the nulation study of cceptance criter
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8	<ul> <li>specifications. However as per guidelines (Parenteral Inspection Society; Ch maximum acceptable leak rate should not be more than 10 µbar.l/sec. But on the design document the acceptance criteria is26 µbar.l/s. So, the media fill to be ca same acceptable leak rate as per vendor recommendations. If this process simedia fill will be passed with this leakage then it will be considered as final a and if any failure found with this leak rate, so a corrective action should be ta leak rate.</li> <li>Record the observations &amp; data as per Appendix 3.4.1.</li> <li>Attach the print out of the test cycle taken from the sterilizer with this data sheet.</li> </ul>	hapter No. 7) the basis of vendo arried out with the nulation study of cceptance critering ken to reduce the Acceptance