

Standard Operating Procedure <b>Biohazard Class II Cabinet Leak Test</b>	SOP No. 8.056
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DCR No.: 03024  
Revision No.: 1

**Effective:** 3-5-99  
**Supersedes:** 3-5-99  
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- 1 Purpose
  - 1.1 To establish a standard procedure to determine if exterior surfaces of all plenums, welds, gaskets and plenum penetrations or seals are free of leaks.
- 2 Scope
  - 2.1 This procedure applies to Class II Biohazard Cabinets.
- 3 Reference
  - 3.1 NSF Standard 49, 2002.
- 4 Definition
  - 4.1 wg: Water Gauge
- 5 Responsibility
  - 5.1 Test and Balance (TAB) technicians shall record all test measurements on Form FN 8.057.4 (Biohazard Safety Cabinet Test Report Details III) in the Cabinet Leak Test section and indicate test results, Pass or Fail under cabinet integrity test section on Form FN 8.057.1 (Biohazard Safety Cabinet Test Report Summary Sheet).
  - 5.2 All test reports shall be saved in files, located in the TAB department of Therma.
  - 5.3 All test equipment utilized shall be in calibration in accordance with National Environmental Balancing Bureau (NEBB) Standards and traceable to the National Institute of Standards and Technology (NIST).
- 6 Materials Requirement
  - 6.1 Heavyweight Plastic Film
  - 6.2 Duct Tape
  - 6.3 Sheet Metal as needed to cover user openings

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- 6.4 Liquid Leak Detector
- 6.5 Source of compressed air adequate to pressurize the Biohazard Cabinet to 2.00 in wg.
- 7 Test Equipment
  - 7.1 Differential pressure gauge or pressure transducer capable of measuring 2.00 inches wg, accurate to  $\pm 0.02$  in wg.
- 8 Procedures
  - 8.1 Refer to NSF 49, Annex F, Section F.6, Subsection F.6.1.3 and F.6.1.4 for required procedures.
  - 8.2 Refer to NSF 49, Annex F, Section 6, Subsection F.6.1.5 for standards of acceptance.
  - 8.3 Record test results on the Form FN 8.057.4 (Biological Safety Cabinet Test Report Detail III) in the Cabinet Leak Test section.
  - 8.4 Indicate Pass or Fail for cabinet integrity test (A1 Cabinets Only) on Form FN 8.057.1 (Biohazard Safety Cabinet Test Report Summary Sheet).
- 9 Review and Approval
  - 9.1 TAB technicians shall return the Form FN 8.057.1 (Biohazard Safety Cabinet Test Report Summary Sheet) and the Form FN 8.057.4 (Biological Safety Cabinet Test Report Detail II) to the TAB Department for review.

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## Document Approval

  
 \_\_\_\_\_  
 Test & Balance Supervisor

10/01/03  
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 Date

  
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 Engineering Manager

10/01/03  
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 Date

  
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 Quality Assurance Manager

11-15-03  
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 Date

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