

Standard Operating Procedure <b>Biohazard Class II Cabinet Noise Level Test</b>	SOP No. 8.052
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**Effective:** 3-5-99  
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- 1 Purpose
  - 1.1 To establish a standard procedure to determine the noise level of an operating Class II Biohazard Cabinet.
- 2 Scope
  - 2.1 This procedure applies to Class II Biohazard Cabinets.
- 3 Reference
  - 3.1 NSF Standard 49, 2002.
- 4 Definition
  - 4.1 db: decibel
  - 4.2 A: Sound level weighting scale
- 5 Responsibility
  - 5.1 Test and Balance (TAB) technicians shall record all test measurements on Form FN 8.057.3 (Biohazard Safety Cabinet Test Report Details II) in the Noise Level Test section and indicate test results, Pass or Fail, 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 Ringstand and Clamp

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## 7 Test Equipment

7.1 A sound level meter that meets the criteria in NSF 49, Annex F, Section F.11, Subsection F.11.2.

7.2 Sound Level Calibration Device

## 8 Procedures

8.1 Refer to NSF 49, Annex F, Section F.11, Subsection F.11.3 for test procedures

8.2 Refer to NSF 49, Annex F, Section F.11, Subsection F.11.4 for standards of acceptance for the Noise Level tests.

8.3 Refer to sound level meter manufacturer's instruction for correct operation of the instrument.

8.4 Record measurements on the Biological Safety Cabinet Test Report Detail II sheet in the Noise Level Test Section.

8.5 If noise level correction curves or tables are not available with the sound level meter, the correction table found in NSF 49, Annex F, Section F.11, on Page F13 should be used to correct the measurements.

8.6 Perform calculation and record in Corrected Noise Level box on the Form FN 8.057.3 (Biological Safety Cabinet Test Report Detail II) in the Noise Level Test section.

8.7 TAB technicians shall indicate Pass or Fail for the noise level test, 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 8.057.3 (Biological Safety Cabinet Test Report Detail II) to the TAB Department for review.

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## Document Approval

  
 \_\_\_\_\_  
 Test and 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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