Australian Standard®

Cleanrooms, workstations, and safety cabinets—Methods of test

Method 21: Determination of inward air velocity of Class I biological safety cabinets

1 SCOPE. This Standard sets out the method for determining the velocity of the inflowing air through the work access opening of a Class I biological safety cabinet.

NOTE: This Standard is based on Appendix D of AS 2252.1 and is intended to replace that Appendix at a later stage.

2 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

AS
1386 Cleanrooms and clean workstations
1386.1 Part 1: Principles of clean space control

1807 Cleanrooms, workstations, and safety cabinets–Methods of test
1807.0 Part 0: List of methods and apparatus

2252 Biological safety cabinets
2252.1 Part 1: Biological safety cabinets (Class I) for personnel protection

3 DEFINITIONS. For the purpose of this Standard the definitions given in AS 1386.1 and AS 1807.0 apply.

4 PRINCIPLE. Air velocity readings are taken with an anemometer at selected locations in the work access opening.

5 APPARATUS. A freestanding anemometer as specified in AS 1807.0 is required.

6 PROCEDURE. Using the freestanding anemometer in the plane of the work access opening, take readings at multiple points over an area bounded by the perimeter of the work access opening.

The multiple points selected shall have centres approximately 100 mm apart as illustrated in Figure 1.

7 REPORT. The following information shall be reported:

(a) All readings in metres per second and their locations.

(b) The minimum reading.

(c) If adjustments or repairs have been made during testing, the final test report shall note this action and shall report the relevant information, as above, before *and* after all adjustments or repairs made.