

Australian Standard™

Cleanrooms, workstations, safety cabinets and pharmaceutical isolators—Methods of test

Method 10: Determination of air pressure of cleanrooms and pharmaceutical isolators

1 SCOPE This Standard sets out the method for determining the air pressure in the innermost cleanroom relative to that of another room, area, or reference condition.

NOTE: Pharmaceutical isolators are viewed as rooms for the purpose of this determination.

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, safety cabinets and pharmaceutical isolators—
Methods of test

1807.0 Part 0: List of methods and apparatus

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

4 PRINCIPLE The differential in air pressure between the innermost room and consecutive outer areas is measured with a manometer(s).

5 APPARATUS A manometer with suitable range as specified in AS 1807.0 is required.

6 PROCEDURE The procedure shall be as follows:

- (a) With all doors closed, measure the pressure differential between the room and anteroom (if provided), and between anteroom and adjacent surroundings.
- (b) If no anteroom is provided, measure the pressure differential between the room and the adjacent surroundings.
- (c) If the clean space is subdivided into more than one room, measure the pressure differentials between the innermost room and the next room in order. Continue until the last room (or anteroom) has been measured against the adjacent surroundings.

7 REPORT The following information shall be reported:

- (a) The pressure differential between all the adjacent and consecutive pressure areas.
- (b) Reference to this Australian Standard, i.e. AS 1807.10.

If adjustments or repairs have been made during testing, the final test report shall note this action and shall report the pressure differentials before *and* after all adjustments or repairs made.