Australian Standard™

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

Method 23: Determination of intensity of radiation from germicidal ultraviolet lamps

1 SCOPE This Standard sets out the method for determining the intensity of radiation of 254 nm wavelength at the work floor surface of a work zone.

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 ultraviolet radiation is measured with an ultraviolet intensity meter at specified positions across the work floor surface.

5 APPARATUS An ultraviolet intensity meter as specified in AS 1807.0 is required.

6 PROCEDURE The procedure shall be as follows:

(a) Put on protective clothing including gloves, safety glasses, and face shield capable of blocking ultraviolet radiation.

(b) With the lamp switched off, clean its surfaces with a soft cloth moistened with 80 percent (*V/V*) ethanol in water.

(c) Switch on the lamp and allow it to warm up for 5 min.

(d) Adjust the intensity meter according to the manufacturer's instructions. If the sensor can be used remote from the meter housing by means of an extension cord, lay it flat on the work floor surface.

(e) Take readings at approximately 300 mm centres across the full front width of the work floor surface, starting approximately 150 mm in from each side.