UK Health Security Agency

Certificate of Compliance Testing

Complex Validation of Physical and Biological Sampling Efficiency According to ISO 14698-1:2003 Annex B.2 and EN 17141:2020 – Annex E.6

Test Summary

The MAS-100 Sirius® Air Sampler was evaluated for physical and biological sampling efficiency using the Aerosol Chamber Method as defined in ISO 14698-1:2003, Annex B.2 and EN 17141:2020, Annex E.6. Physical sampling efficiency was tested across particle sizes from 0.8 µm to 11 µm. The recovery rate increased up to 109.8% at a particle size of 2.5 µm when tested at 100 SLPM and 97.31% when tested at 200 SLPM. The experimentally detected d50 value was below 0.8 µm, confirming compliance with EN 17141:2020 Annex E.6.

Biological sampling efficiency was 75.2% with Perforated Lid A (100 SLPM) and 89.8% with Perforated Lid B (200 SLPM), both within the acceptance range of (100 ± 50)% as defined in EN 17141:2020 Annex E.6.4. Testing confirmed compliance of the MAS-100 Sirius® with the referenced standards, supporting its suitability for use in cleanroom environments.

Manufacturer	**MBV AG, Switzerland**
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Certificate Written By



Name: Ms Helen Hookway

Title: Senior Biosafety Scientist

Certificate Authorised By



Name: Mr Simon Parks

Title: Senior Biosafety Scientist

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