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NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJF 1815-2020

Calibration Specification for Class II Biosafety Cabinets

II 级生物安全柜校准规范

(English Translation)

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Introduction

The preparation of this specification is based on JJF 1001-2011 "General Measurement Terms and Definitions", JJF 1071-2010 "Country "Measurement Calibration Rules" and "JJF 1059.1-2012" Measurement Uncertainty Evaluation and Expression "as the basis and basis according to. The calibration method and measurement characteristics are mainly referred to BSEN12469.:2000 "Biotechnology Microbiological Safety Cabinet Performance standards "(Biotechnology-Performance criteria for microbiological safetycabinets), NSF/ANSI49-2018 "Biosafety cabinet design, structure, performance and on-site certification" (BiosafetyCabin-etry-Design, Construction, Performance, and Field Certification), ISO 14644-1.

2015 `` Clean Room and Related Controlled Environment Part 1. Classification of Air Cleanliness Based on Particle Concentration '' (Clean-roomsandassociatedcontroledenvironments Part 1. Classificationofaircleanliness byparticleconcentration), BS5726-3.:1992 "Microbiological safety cabinet specifications Part 3. After installation Performance Specification (Microbiologicalsafetycabinets Part 3.

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Specification for performance after instalation), WS233-2017 "General Guidelines for Biosafety of Pathogenic Microbiology Laboratories", YY0569-2011 "Class II Biosafety Cabinet".

This specification is the first release.

Calibration standard for Class II biological safety cabinet

1 Scope

This specification applies to the calibration of Class II biological safety cabinets, and the calibration of the same principle parts of Class I and III biological safety cabinet can refer to the implementation of this specification.

2 Reference documents this specification refers to the following documents.

BSEN12469.:2000 Performance Standards for Biotechnology Microbiological Safety Cabinet (Biotechnology-Per-formancecriteriaformicrobiologicalsafetycabinets) NSF/ANSI49-2018 biological safety cabinet design, structure, performance and on-site certification (Biosafety Cabinetry. Design, Construction, Performance, andFieldCertification) ISO 14644-1.:2015 Clean rooms and related controlled environments Part 1. Clean air according to particle concentration Clarity classification (CleanroomsandassociatedcontroledenvironmentsPart 1. Classification ofaircleanlinessbyparticleconcentration) BS5726-3.:1992 Specification for microbiological safety cabinets. Part 3. Performance specifications after installation (Microbiological safetycabinets Part 3. Specificationforperformanceafterinstalation) WS233-2017 General Guidelines for Biosecurity in Pathogenic Microbiology Laboratories for dated reference documents, only the dated version applies to this specification; for those without date references the latest version (including all amendments) is applicable to this specification.

3 Terms and units of measurement as defined in BSEN12469.:2000, NSF/ANSI49-2018 and ISO 14644-1.:2015 and below Terms and definitions apply to this specification.

3.1 Biological agents biological agents [NSF/ANSI49-2018] all microorganisms and biologically active substances.

3.2 Biohazard [NSF/ANSI49-2018] Direct or potential hazards caused by biological media.

3.3 Crosscontamination [BSEN12469-2000] Substances outside the target accidentally enter the target.

3.4 Product protection [BSEN12469-2000] the biological safety cabinet prevents contaminants from outside air from spreading into the working area of the safety cabinet through the front window operation port.

3.5 Airflow

3.5.1 Downflow velocity downflow velocity [NSF/ANSI49-2018] the airflow velocity from the

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vertical above the biological safety cabinet filtered by the high-efficiency filter to the work area provides production

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