

Chemical Effluent Decontamination Systems must be validated by the user (left), pressure charting: No excursions into positive pressure are allowed according to BMBL 2007 for BSL-3 facilities (middle), BSL-3 autoclaves must have true bioseals (right).

Certification Standards

BSL-2/3 microbiological and plant facilities

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Microbiological Laborato- ries	 ISO 35001:2019 / CWA 15793:2008 Laboratory Biorisk Management Standard WHO Laboratory Biosafety Manual (4th ed., 2020) and associated monographs Expanded checklist from WHO Laboratory Biosafety Manual (Singapore MOH) US CDC/NIH Biomedical and Microbiological Laboratory Guidelines (6th edition 2020) US NIH Biosafety Level 3-Laboratory Certification Requirements (2007) Directive 2000/54 on the protection of workers from risks related to exposure to biological agents at work Directive 2009/41/EC of the European Parliament and of the Council of 6 May 2009 on the contained use of genetically modified micro-organisms EN ISO 14644-3: Clean rooms and associated controlled environments British Advisory Committee on Dangerous Pathogens (2001) TS EN 12128:1998: Biotechnology-Laboratories for research, development and analysis Australian/New Zealand Standard 2243.3:2010 and Draft 2243.3:2019 Australian/New Zealand Standard 2982.1:1997 and 2243.3:2002 Canadian Laboratory Biosafety Standard (3rd ed., 2022)
Insectaries	 Insectaries and other special applications: US and Canadian arthropod containment requirements (2003) Arthropod Containment Guidelines, Version 3.2 (2019)
BSL-3Ag	 Veterinary Biosafety Containments: Appendix D of BMBL for loose-housed animals (2007) FAO/EU Minimal Standard for Laboratories Working with FMDV <i>in vitro/in vivo</i>, Appendix 10 (2009)
Plant Biocontainment	 Australian/New Zealand Standard 2982.1:1997 and 2243.3:2002 Australian government's Guidelines for Certification of PC2/3 Plant Containment Facilities
Recommendations	_ The certification should be against one single standard, not a combination or mix, because some requirements may be conflicting.

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