



SLOVENSKI STANDARD

SIST EN 12469-2:2026

01-januar-2026

Biološke varnostne omare - 2. del: Biološke varnostne omare (BSC) razreda II

Biological safety cabinets - Part 2: BSC class II

Biologische Sicherheitswerkbänke - Teil 2: BSC Klasse II

Postes de sécurité biologique - Partie 2: BSC de type II

Ta slovenski standard je istoveten z: EN 12469-2:2025

ICS:

07.080 Biologija, Botanika, Zoologija Biology, Botany, Zoology
07.100.01 Mikrobiologija na splošno Microbiology in general

SIST EN 12469-2:2026

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12469-2

November 2025

ICS 07.080

English Version

Biological safety cabinets - Part 2: BSC class II

Postes de sécurité microbiologique - Partie 2 : PSM de
type II

Biologische Sicherheitswerkbänke - Teil 2: BSC Klasse
II

This European Standard was approved by CEN on 5 October 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

Document Preview

SIST EN 12469-2:2026

<https://standards.iteh.ai/catalog/standards/sist/07eccc0f-fa65-41fd-9071-81f295385813/sist-en-12469-2-2026>



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	5
Introduction	6
1 Scope.....	7
2 Normative references.....	7
3 Terms and definitions	7
4 Tests.....	7
5 Design and construction.....	9
5.1 General.....	9
5.2 Stability.....	9
5.3 Ergonomics.....	9
5.4 Lighting.....	9
5.4.1 General.....	9
5.4.2 Testing	9
5.5 UV lamps	9
5.6 Sound and vibrations.....	9
5.7 Glazing	9
5.7.1 General.....	9
5.7.2 Testing of the sash	9
5.8 Carcass	10
5.8.1 General.....	10
5.8.2 Testing	10
5.9 Filter system	11
5.9.1 General.....	11
5.9.2 Liquid protection test.....	11
5.10 Alarm indicators and alarms.....	11
5.10.1 Alarm indicators	11
5.10.2 Alarms.....	11
5.11 Gas supply	12
5.12 Electrical safety	12
5.13 Stop / start of BSC	12
5.14 Connection to exhaust systems.....	12
5.15 Cleanability	12
5.16 Decontaminability	12
5.17 Spillage tray	12
5.18 Intake grille.....	12
6 Airflow velocities	12
6.1 General.....	12
6.2 Downflow	12
6.2.1 General.....	12
6.2.2 Testing	13
6.3 Inflow	15
6.3.1 General.....	15

6.3.2	Testing.....	15
6.3.3	Alternative test methods	19
6.4	Visualization of airflows	19
6.4.1	General	19
6.4.2	Material and equipment.....	19
6.4.3	Procedure	19
6.4.4	Documentation	20
7	Protective functions.....	20
7.1	General	20
7.2	Operator protection.....	20
7.2.1	General	20
7.2.2	Testing.....	20
7.3	Product protection	21
7.3.1	General	21
7.3.2	Testing.....	21
7.4	Cross-contamination protection	21
7.4.1	General	21
7.4.2	Testing.....	21
7.5	Stability of the protective functions.....	21
7.5.1	General	21
7.5.2	Testing.....	21
8	Accompanying documents	21
8.1	Operating manual.....	21
8.2	Equipment logbook.....	21
8.3	Brief instructions for use	22
9	Marking	22
10	Installation and maintenance	22
Annex A (normative)	Test for operator protection.....	23
A.1	Microbiological test	23
A.1.1	General	23
A.1.2	Material and equipment.....	23
A.1.3	Test procedure	28
A.1.4	Calculation and expression of results	30
A.1.5	Acceptance criteria	30
A.2	Potassium iodide (KI) method.....	31
A.2.1	General	31
A.2.2	Material and equipment.....	32
A.2.3	Test procedure	33
A.2.4	Acceptance criteria	34
Annex B (normative)	Test for product protection.....	35
B.1	General	35
B.2	Material and equipment.....	35
B.2.1	Reagents.....	35

EN 12469-2:2025 (E)

B.2.2	Equipment	35
B.3	Test procedure.....	36
B.4	Calculation and expression of results	37
B.5	Acceptance criteria.....	37
	Annex C (normative) Test for cross-contamination protection	38
C.1	General.....	38
C.2	Material and equipment.....	38
C.2.1	Reagents	38
C.2.2	Equipment	38
C.3	Test procedure.....	39
C.4	Calculation and expression of results	40
C.5	Acceptance criteria.....	40
	Annex D (normative) Test of the stability of protective functions.....	41
D.1	General.....	41
D.2	Material and equipment.....	41
D.3	Test procedure.....	41
D.4	Calculation and expression of results	42
D.5	Acceptance criteria.....	42
	Bibliography	43

ITeH Standards
[\(https://standards.iteh.ai/\)](https://standards.iteh.ai/)
 Document Preview

SIST EN 12469-2:2026

<https://standards.iteh.ai/catalog/standards/sist/07eccc0f-fa65-41fd-9071-81f295385813/sist-en-12469-2-2026>