

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### MHD 10 : Medical Laboratory Instruments

**Scope:** To formulate Indian Standards for medical laboratory instruments and medical laboratory equipments and glasswares in all in-vitro diagnostics medical laboratories including clinical-pathology, hematology, histopathology, cytopathology, flow-cytometry, biochemistry, microbiology and molecular biology

**Liaison:**

### Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10269 : 2024	Medical Laboratory Glass Apparatus - Haemocytometer - Specification (First Revision)		-	Indigenous
2	IS 10269 : 1982 <span style="color: green;">Reviewed In : 2022</span>	Specification for haemocytometer counting chambers clinical and diagnostic apparatus	May, 2022	-	Indigenous
3	IS 10867 : 2018 ISO 6710 : 2017 <span style="color: green;">ISO 6710: 2017</span>	Single - Use containers for human venous blood specimen collection (First Revision)	-	-	Identical under dual numbering
4	IS 10916 : 1984 <span style="color: green;">Reviewed In : 2022</span>	Specification for evacuated tubes for blood specimen - Collection (Vacutainers)	March, 2022	-	Indigenous
5	IS 11383 : 1985 <span style="color: green;">Reviewed In : 2022</span>	Specification for thin walled glass capillary pipettes	December, 2022	-	Indigenous
6	IS 12622 : 1989 <span style="color: green;">Reviewed In : 2021</span> Reaffirmed but not taken up for revision	Medical thermometers for hypothermia, subnormal range - Specification	February, 2021	-	Indigenous
7	IS 14284 : 1995 ISO 7712 <span style="color: green;">Reviewed In : 2021</span> <span style="color: green;">ISO 7712 : 1983</span>	Laboratory glassware - Disposable pasteur pipettes - Specification	February, 2021	-	Identical under dual numbering
8	IS 18298 : 2023 ISO 17593 : 2022 <span style="color: green;">ISO 17593 : 2022</span>	Clinical Laboratory Testing and in Vitro Medical Devices Requirements for in Vitro Monitoring Systems for Self-Testing of Oral Anticoagulant Therapy First Revision		-	Identical under dual numbering
9	IS 3055 (Part 1) : 1994 <span style="color: green;">Reviewed In : 2021</span>	Clinical thermometers: Part 1 solid stem type - Specification (Second Revision)	February, 2021	5	Indigenous
10	IS 3055 (Part 2) : 2004 <span style="color: green;">Reviewed In : 2019</span>	Clinical thermometers: Part 2 enclosed scale type - Specification (Third Revision)	November, 2019	-	Indigenous

11	IS 3740 : 2024	Medical Laboratory Glassware Glass Tubes for Pathology Work - Specification First Revision		-	Indigenous
12	IS 3741 (Part 1) : 1990 Reviewed In : 2016	Medical instruments sedimentation tubes - Specification: Part 1 westergren tube (Second Revision)	February, 2016	-	Indigenous
13	IS 3741 (Part 2) : 1990 Reviewed In : 2021	Medical glass instruments - Sedimentation tubes - Specification: Part 2 wintrobe tube (Second Revision)	February, 2021	-	Indigenous
14	IS 3742 : 1990 Reviewed In : 2021	Medical glass instruments - Pipettes, dilution for haemocytometers specification (Second Revision)	February, 2021	-	Indigenous
15	IS 4067 : 1967 Reviewed In : 2022	Specification for tube, swab (West Type), for throat	March, 2022	-	Indigenous
16	IS 4069 : 2024	Medical Laboratory Glassware - Urinometer - Specification (First Revision)		-	Indigenous
17	IS 4087 : 2024	Medical Laboratory Glassware Pipette for Haemoglobinometer and Blood Pipette for Biochemical Work - Specification Second Revision		-	Indigenous
18	IS 4364 : 2024	Medical Laboratory Glassware Serological Pipettes - Specification First Revision		-	Indigenous
19	IS 4381 : 1967 Reviewed In : 2022	Specification for pathological microscope	March, 2022	3	Indigenous
20	IS 4444 : 1967 Reviewed In : 2022	Specification for bottles, bacteriological	March, 2022	1	Indigenous
21	IS 4529 : 1968 Reviewed In : 2018 Reaffirmed but not taken up for revision	Specification for glass tubes for medical thermometers	January, 2018	-	Indigenous
22	IS 4708 : 2024	Medical Laboratory Glassware - Conical Urine Glass - Specification (First Revision)		-	Indigenous
23	IS 4754 : 2024	Medical Laboratory Glassware - Staining Troughs and Jar - Specification ( First Revision )		-	Indigenous
24	IS 5155 : 1969 Reviewed In : 2024	Specification for pipettes, ostwald - Folin type	January, 2024	-	Indigenous
25	IS 6606 : 2024	Medical Laboratory Glass Apparatus Esbachs Albuminometer Specification First Revision		-	Indigenous
26	IS 6942 : 1973 Reviewed In : 2022	Specification for flask, roux, bacteriological, with or without offset neck (1000 MI Nominal Capacity)	March, 2022	-	Indigenous
27	IS 6943 : 2024	Medical Laboratory Glassware - Cover Glass used with Haemocytometer - Specification (Second Revision)		-	Indigenous
28	IS 6944 : 1973 Reviewed In : 2022	Specification for bottle, bijou, bacteriological	March, 2022	-	Indigenous
29	IS 7039 : 1973 Reviewed In : 2022	Specification for tube, culture, screw cap	March, 2022	-	Indigenous

30	IS 7183 : 1973 Reviewed In : 2022	Specification for flask, culture, haffkine	March, 2022	-	Indigenous
31	IS 8501 : 1977 Reviewed In : 2022	Specification for anaerobic jar	March, 2022	-	Indigenous
32	IS 9430 : 1980 Reviewed In : 2022	Specification for tube, haemometer	March, 2022	-	Indigenous

### Standards under Development

#### Projects Approved

SI. No.	Doc No.	Title
1	MHD 10 (25169) Revision of: IS 6942:1973	Medical Laboratory Glassware Roux Bacteriological Flask - Specification First Revision
2	MHD 10 (25170) Revision of: IS 6944:1973	Medical Laboratory Glassware Bijou bacteriological bottle - Specification First Revision
3	MHD 10 (25171) Revision of: IS 7039:1973	Medical Laboratory Glassware Culture tube with screw cap - Specification First Revision
4	MHD 10 (25172) Revision of: IS 8501:1977	Medical Laboratory Glassware Anaerobic jar - Specification First Revision
5	MHD 10 (25173) Revision of: IS 9430:1980	Medical Laboratory Glassware Haemometer Tube Specification First Revision
6	MHD 10 (25174) Revision of: IS 11383:1985	Medical Laboratory Glassware Thin walled glass capillary pipettes - Specification First Revision
7	MHD 10 (25175)	Medical Laboratory Instrument - Liquid based cytology kit
8	MHD 10 (25176)	Medical Laboratory Instrument - Filter tips for standard pipettes
9	MHD 10 (25177)	Medical Laboratory Instrument - Gradient Thermocyclers - General Requirements
10	MHD 10 (25178)	Medical Laboratory Instrument - Platelet Incubator with Agitator- General Requirements
11	MHD 10 (25179)	Medical Laboratory Instrument - Anaerobic Workstation - General Requirements

#### Preliminary Draft Standards

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	MHD 10 (25168) Revision of: IS 5155:1969	Medical Laboratory Glassware Ostwald-Folin Type Pipettes Specification First Revision

#### Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Finalized Draft Indian Standard

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	MHD 10 (22499) Revision of: IS 4444:1967	Medical Laboratory Glassware Bacteriological Bottles Specification first revision

## Aspect Wise Report

Product : 30  
 Code of Practices : 1  
 Methods of Test : 0  
 Terminology : 0  
 Dimensions : 0  
 System Standard : 0  
 Safety Standard : 0  
 Others : 0  
 Service Specification : 0  
 Process Specification : 0  
 Unclassified : 0

## Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS/ISO 17593 : 2007 ISO 17593:2007 IS/IEC 60695-1-10:2016	Clinical laboratory testing and in vitro medical devices - Requirements for in vitro monitoring systems for self-testing of oral anticoagulant therapy
2	IS 3238 : 1965	Dimensions for hypodermic syringes interchangeable type
3	IS 4557 : 1968 Reviewed In : 2006	Appliances office flat adjustable for artificial limbs
4	IS 4608 : 1968	Brush-holding device for artificial limbs
5	IS 4612 : 1968	C-hook terminal device spring loaded for artificial limbs
6	IS 4657 : 1968	Ring Device For Artificial Limbs
7	IS 4676 : 1968	Workshop-tool-holding device for artificial limbs
8	IS 4678 : 1967	Universal device for artificial limbs
9	IS 5013 : 1969	Tooth-Brush-holding terminal device for artificial limbs
10	IS 5014 : 1969	Telephone-receiver-holding device for artificial limbs
11	IS 5016 : 1968	Safety Razor Holding Device For Artificial Limbs
12	IS 5587 : 1970 Reviewed In : 2006	Hand Dress
13	IS 5588 : 1970	Quadriceps Boots
14	IS 5811 : 1970	Hip joint with lock for steel orthopaedic calipers and braces
15	IS 6415 : 1972	Floor springs Hydraulically Regulated for heavy doors - Specification Second Revision
16	IS 6423 : 1972	Simple single axis steel hip joint for above knee conventional prosthesis
17	IS 6424 : 1972	Simple axis steel knee joint for below knee conventional prosthesis
18	IS 6984 : 1972	Polycentric knee joint
19	IS 6998 : 1983	Special screw for sach foot
20	IS 8490 : 1977	Skin blocks wooden

21	IS 8491 : 1977	Knee Blocks Wooden
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**Annexure-II :List of Indian Product Standards**

SI. No.	IS No. & Year	Title
1	IS 10269 : 2024	Medical Laboratory Glass Apparatus - Haemocytometer - Specification First Revision
2	IS 10867 : 2018 ISO 6710 : 2017 ISO 6710: 2017	Single - Use containers for human venous blood specimen collection First Revision
3	IS 10916 : 1984 Reviewed In : 2022	Specification for evacuated tubes for blood specimen - Collection Vacutainers
4	IS 11383 : 1985 Reviewed In : 2022	Specification for thin walled glass capillary pipettes
5	IS 12622 : 1989 Reviewed In : 2021 Reaffirmed but not taken up for revision	Medical thermometers for hypothermia subnormal range - Specification
6	IS 14284 : 1995 ISO 7712 Reviewed In : 2021 ISO 7712 : 1983	Laboratory glassware - Disposable pasteur pipettes - Specification
7	IS 3055 (Part 1) : 1994 Reviewed In : 2021	Clinical thermometers Part 1 solid stem type - Specification Second Revision
8	IS 3055 (Part 2) : 2004 Reviewed In : 2019	Clinical thermometers Part 2 enclosed scale type - Specification Third Revision
9	IS 3740 : 2024	Medical Laboratory Glassware Glass Tubes for Pathology Work - Specification First Revision
10	IS 3741 (Part 1) : 1990 Reviewed In : 2016	Medical instruments sedimentation tubes - Specification Part 1 westergren tube Second Revision
11	IS 3741 (Part 2) : 1990 Reviewed In : 2021	Medical glass instruments - Sedimentation tubes - Specification Part 2 wintrobe tube Second Revision
12	IS 3742 : 1990 Reviewed In : 2021	Medical glass instruments - Pipettes dilution for haemocytometers specification Second Revision
13	IS 4067 : 1967 Reviewed In : 2022	Specification for tube swab West Type for throat
14	IS 4069 : 2024	Medical Laboratory Glassware - Urinometer - Specification First Revision
15	IS 4087 : 2024	Medical Laboratory Glassware Pipette for Haemoglobinometer and Blood Pipette for Biochemical Work - Specification Second Revision
16	IS 4364 : 2024	Medical Laboratory Glassware Serological Pipettes - Specification First Revision
17	IS 4381 : 1967 Reviewed In : 2022	Specification for pathological microscope
18	IS 4444 : 1967 Reviewed In : 2022	Specification for bottles bacteriological
19	IS 4529 : 1968 Reviewed In : 2018 Reaffirmed but not taken up for revision	Specification for glass tubes for medical thermometers
20	IS 4708 : 2024	Medical Laboratory Glassware - Conical Urine Glass - Specification First Revision
21	IS 4754 : 2024	Medical Laboratory Glassware - Staining Troughs and Jar - Specification First Revision
22	IS 5155 : 1969 Reviewed In : 2024	Specification for pipettes ostwald - Folin type
23	IS 6606 : 2024	Medical Laboratory Glass Apparatus Esbachs Albuminometer Specification First Revision

24	IS 6942 : 1973 Reviewed In : 2022	Specification for flask roux bacteriological with or without offset neck 1000 MI Nominal Capacity
25	IS 6943 : 2024	Medical Laboratory Glassware - Cover Glass used with Haemocytometer - Specification Second Revision
26	IS 6944 : 1973 Reviewed In : 2022	Specification for bottle bijou bacteriological
27	IS 7039 : 1973 Reviewed In : 2022	Specification for tube culture screw cap
28	IS 7183 : 1973 Reviewed In : 2022	Specification for flask culture haffkine
29	IS 8501 : 1977 Reviewed In : 2022	Specification for anaerobic jar
30	IS 9430 : 1980 Reviewed In : 2022	Specification for tube haemometer