

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### MHD 10 : Medical Laboratory Instruments

Scope: a) To formulate Indian Standards on products used in medical diagnostic laboratories for collection, preparation, handling and processing of human samples. b) Excluding products or equipment generating clinical/diagnostic results and equipment/processes/services specific to biotechnology.

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 10867:2018 ISO 6710 : 2017 <span style="color: green;">Reviewed In : 2024 ISO 6710: 2017</span>	Single - Use containers for human venous blood specimen collection (First Revision)	February, 2024	-	Identical under dual numbering
3	IS 11383:1985 <span style="color: green;">Reviewed In : 2022</span>	Specification for thin walled glass capillary pipettes	December, 2022	-	Indigenous
4	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
5	IS 14284:1995 ISO 7712 <span style="color: green;">Reviewed In : 2021 ISO 7712 : 1983</span>	Laboratory glassware - Disposable pasteur pipettes - Specification	February, 2021	-	Identical under dual numbering
6	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
7	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
8	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
9	IS 3740:2024	Medical Laboratory Glassware Glass Tubes for Pathology Work - Specification First Revision		-	Indigenous
10	IS 3741 (Part 1):1990	Medical instruments sedimentation tubes - Specification: Part 1	February, 2024	-	Indigenous

	Reviewed In : 2024	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)	February, 2021	-	Indigenous
12	IS 3742:1990 Reviewed In : 2021	Medical glass instruments - Pipettes, dilution for haemocytometers specification (Second Revision)	February, 2021	-	Indigenous
13	IS 4067:1967 Reviewed In : 2022	Specification for tube, swab (West Type), for throat	March, 2022	-	Indigenous
14	IS 4069:2024	Medical Laboratory Glassware - Urinometer - Specification (First Revision)		-	Indigenous
15	IS 4087:2024	Medical Laboratory Glassware Pipette for Haemoglobinometer and Blood Pipette for Biochemical Work - Specification Second Revision		-	Indigenous
16	IS 4364:2024	Medical Laboratory Glassware Serological Pipettes - Specification First Revision		-	Indigenous
17	IS 4381:1967 Reviewed In : 2022	Specification for pathological microscope	March, 2022	3	Indigenous
18	IS 4444:2024	Medical Laboratory Glassware "Bacteriological Bottles" Specification (First Revision)		-	Indigenous
19	IS 4529:1968 Reviewed In : 2018 Reaffirmed but not taken up for revision	Specification for glass tubes for medical thermometers	January, 2018	-	Indigenous
20	IS 4708:2024	Medical Laboratory Glassware - Conical Urine Glass - Specification (First Revision)		-	Indigenous
21	IS 4754:2024	Medical Laboratory Glassware - Staining Troughs and Jar - Specification ( First Revision )		-	Indigenous
22	IS 5155:2025	Medical Laboratory Glassware Ostwald-Folin Type Pipettes Specification First Revision		-	Indigenous
23	IS 5155:1969 Reviewed In : 2024	Specification for pipettes, ostwald - Folin type	January, 2024	-	Indigenous
24	IS 6606:2024	Medical Laboratory Glass Apparatus Esbachs Albuminometer Specification First Revision		-	Indigenous
25	IS 6942:1973 Reviewed In : 2022	Specification for flask, roux, bacteriological, with or without offset neck (1000 MI Nominal Capacity)	March, 2022	-	Indigenous
26	IS 6943:2024	Medical Laboratory Glassware - Cover Glass used with Haemocytometer - Specification (Second Revision)		-	Indigenous
27	IS 6944:1973 Reviewed In : 2022	Specification for bottle, bijou, bacteriological	March, 2022	-	Indigenous
28	IS 6944:2025	Medical Laboratory Glassware — Bijou Bacteriological Bottle — Specification (First Revision)		-	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 (25172) Revision of: IS 8501:1977	Medical Laboratory Glassware Anaerobic jar - Specification First Revision
2	MHD 10 (25174) Revision of: IS 11383:1985	Medical Laboratory Glassware Thin walled glass capillary pipettes - Specification First Revision
3	MHD 10 (25175)	Medical Laboratory Instrument - Liquid based cytology kit
4	MHD 10 (25177)	Medical Laboratory Instrument - Lab plasticware RNA-work - General Requirements
5	MHD 10 (25178)	Medical Laboratory Instrument - Platelet Incubator with Agitator- General Requirements
6	MHD 10 (25179)	Medical Laboratory Instrument - Anearobic Workstation - General Requirements
7	MHD 10 (26355)	Medical Laboratory Glassware Blood Sedimentation tubes - Specification
8	MHD 10 (26908) Revision of: IS 7183:1973	Medical Laboratory Glassware Flask Culture Haffkine - Specification

#### 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 (25176)	Medical Laboratory Instruments Pipette Tips Specifications
2	MHD 10 (28479)	Medical Laboratory Instruments Vortex Mixer Specifications

#### Draft Standards Completed WC Stage

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

#### Finalized Draft Indian Standard

SI. No.	Doc No.	Title
1	MHD 10 (25169) Revision of: IS 6942:1973	Medical Laboratory Glassware Roux Bacteriological Flask - Specification First Revision

#### Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	MHD 10 (00378)	Prefilled syringes - Part 3 Seals for dental local anesthetic cartridges
2	MHD 10 (00381)	Pathological Microscope Amendment - 3
3	MHD 10 (11171)	Clinical Electrical Thermometers with Maximum Device Amendment - 1
4	MHD 10 (12448) Revision of: IS 10867:2018	Single-use Containers for Human Venous blood Specimen Collection First Revision
5	MHD 10 (12697)	CLINICAL THERMOMETERS PART 1 Solid Stem Type Specification Second Revision

6	MHD 10 (14213)	Clinical laboratory testing and in vitro medical devices - Requirements for in vitro monitoring systems for self-testing of oral anticoagulant therapy
7	MHD 10 (21498) Revision of: IS 10269:1982	Medical Laboratory Glass Apparatus-Haemocytometer-Specification First Revision
8	MHD 10 (21745) Revision of: IS 3740:1966	Medical Laboratory Glassware Glass Tubes for Pathology Work - Specification First Revision
9	MHD 10 (21771) Revision of: IS 4069:1967	Medical Laboratory Glassware Urinometer - Specification First Revision
10	MHD 10 (21774) Revision of: IS 4087:1980	Medical Laboratory Glassware Pipette for Haemoglobinometer and Blood Pipette for Biochemical Work - Specification Second Revision
11	MHD 10 (21775) Revision of: IS 4364:1967	Medical Laboratory Glassware Serological Pipettes - Specification First Revision
12	MHD 10 (21785) Revision of: IS 4708:1968	Medical Laboratory Glassware Conical Urine Glass - Specification First Revision
13	MHD 10 (21786) Revision of: IS 6943:1990	Medical Laboratory Glassware - Cover Glass used with Haemocytometer Specification Second Revision
14	MHD 10 (21839) Revision of: IS 4754:1968	Medical Laboratory Glassware Staining Troughs and Jar Specification First Revision
15	MHD 10 (21841) Revision of: IS 6606:1972	Medical Laboratory Glass Apparatus Esbachs Albuminometer Specification First Revision
16	MHD 10 (22119) Revision of: IS/ISO 17593:2007	Clinical Laboratory Testing and in Vitro Medical Devices Requirements for in Vitro Monitoring Systems for Self-Testing of Oral Anticoagulant Therapy First Revision
17	MHD 10 (22499) Revision of: IS 4444:1967	Medical Laboratory Glassware - Bacteriological Bottles - Specification first revision
18	MHD 10 (25168) Revision of: IS 5155:1969	Medical Laboratory Glassware Ostwald-Folin Type Pipettes Specification First Revision
19	MHD 10 (25170) Revision of: IS 6944:1973	Medical Laboratory Glassware Bijou Bacteriological Bottle Specification First Revision
20	MHD 10 (25171) Revision of: IS 7039:1973	Medical Laboratory Glassware Culture tube with screw cap - Specification First Revision
21	MHD 10 (25173) Revision of: IS 9430:1980	Medical Laboratory Glassware Haemometer Tube Specification First Revision

**Total Published Standards:29 Total Standards Under development:32**

### Aspect Wise Report

Product : 29  
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

Sl. No.	IS No. & Year	Title
1	IS 10916:1984 Reviewed In : 2022	Specification for evacuated tubes for blood specimen - Collection Vacutainers
2	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
3	IS 3238:1965	Dimensions for hypodermic syringes interchangeable type

4	IS 4557:1968 Reviewed In : 2006	Appliances office flat adjustable for artificial limbs
5	IS 4608:1968	Brush-holding device for artificial limbs
6	IS 4612:1968	C-hook terminal device spring loaded for artificial limbs
7	IS 4657:1968	Ring Device For Artificial Limbs
8	IS 4676:1968	Workshop-tool-holding device for artificial limbs
9	IS 4678:1967	Universal device for artificial limbs
10	IS 5013:1969	Tooth-Brush-holding terminal device for artificial limbs
11	IS 5014:1969	Telephone-receiver-holding device for artificial limbs
12	IS 5016:1968	Safety Razor Holding Device For Artificial Limbs
13	IS 5587:1970 Reviewed In : 2006	Hand Dress
14	IS 5588:1970	Quadriceps Boots
15	IS 5811:1970	Hip joint with lock for steel orthopaedic calipers and braces
16	IS 6415:1972	Floor springs Hydraulically Regulated for heavy doors - Specification Second Revision
17	IS 6423:1972	Simple single axis steel hip joint for above knee conventional prosthesis
18	IS 6424:1972	Simple axis steel knee joint for below knee conventional prosthesis
19	IS 6984:1972	Polycentric knee joint
20	IS 6998:1983	Special screw for sach foot
21	IS 8490:1977	Skin blocks wooden
22	IS 8491:1977	Knee Blocks Wooden

### Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 10269:2024	Medical Laboratory Glass Apparatus - Haemocytometer - Specification First Revision
2	IS 10867:2018 ISO 6710 : 2017 Reviewed In : 2024 ISO 6710: 2017	Single - Use containers for human venous blood specimen collection First Revision
3	IS 11383:1985 Reviewed In : 2022	Specification for thin walled glass capillary pipettes
4	IS 12622:1989 Reviewed In : 2021 Reaffirmed but not taken up for revision	Medical thermometers for hypothermia subnormal range - Specification
5	IS 14284:1995 ISO 7712 Reviewed In : 2021 ISO 7712 : 1983	Laboratory glassware - Disposable pasteur pipettes - Specification
6	IS 3055 (Part 1):1994	Clinical thermometers Part 1 solid stem type - Specification Second Revision

	Reviewed In : 2021	
7	IS 3055 (Part 2):2004 Reviewed In : 2019	Clinical thermometers Part 2 enclosed scale type - Specification Third Revision
8	IS 3740:2024	Medical Laboratory Glassware Glass Tubes for Pathology Work - Specification First Revision
9	IS 3741 (Part 1):1990 Reviewed In : 2024	Medical instruments sedimentation tubes - Specification Part 1 westergren tube Second Revision
10	IS 3741 (Part 2):1990 Reviewed In : 2021	Medical glass instruments - Sedimentation tubes - Specification Part 2 wintrobe tube Second Revision
11	IS 3742:1990 Reviewed In : 2021	Medical glass instruments - Pipettes dilution for haemocytometers specification Second Revision
12	IS 4067:1967 Reviewed In : 2022	Specification for tube swab West Type for throat
13	IS 4069:2024	Medical Laboratory Glassware - Urinometer - Specification First Revision
14	IS 4087:2024	Medical Laboratory Glassware Pipette for Haemoglobinometer and Blood Pipette for Biochemical Work - Specification Second Revision
15	IS 4364:2024	Medical Laboratory Glassware Serological Pipettes - Specification First Revision
16	IS 4381:1967 Reviewed In : 2022	Specification for pathological microscope
17	IS 4444:2024	Medical Laboratory Glassware Bacteriological Bottles Specification First Revision
18	IS 4529:1968 Reviewed In : 2018 Reaffirmed but not taken up for revision	Specification for glass tubes for medical thermometers
19	IS 4708:2024	Medical Laboratory Glassware - Conical Urine Glass - Specification First Revision
20	IS 4754:2024	Medical Laboratory Glassware - Staining Troughs and Jar - Specification First Revision
21	IS 5155:2025	Medical Laboratory Glassware Ostwald-Folin Type Pipettes Specification First Revision
22	IS 6606:2024	Medical Laboratory Glass Apparatus Esbachs Albuminometer Specification First Revision
23	IS 6942:1973 Reviewed In : 2022	Specification for flask roux bacteriological with or without offset neck 1000 MI Nominal Capacity
24	IS 6943:2024	Medical Laboratory Glassware - Cover Glass used with Haemocytometer - Specification Second Revision
25	IS 6944:2025	Medical Laboratory Glassware Bijou Bacteriological Bottle Specification First Revision
26	IS 7039:1973 Reviewed In : 2022	Specification for tube culture screw cap
27	IS 7183:1973 Reviewed In : 2022	Specification for flask culture haffkine
28	IS 8501:1977 Reviewed In : 2022	Specification for anaerobic jar
29	IS 9430:1980 Reviewed In : 2022	Specification for tube haemometer