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 diagonistics medical laboratories including clinical-pathology, hematology, histopathology, cytopathology, flow-cytometery, biochemistry,

microbiology and molecular biology

Liaison:

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

	i			1	
11	IS 3740 : 2024	Medical Laboratory Glassware		-	Indigenous
		Glass Tubes for Pathology Work -			
		Specification First Revision			
12	IS 3741 (Part 1):	Medical instruments sedimentation	February, 2016	-	Indigenous
	1990	tubes - Specification: Part 1	• ,		C
		westergren tube (Second Revision)			
13	IS 3741 (Part 2):	Medical glass instruments -	February, 2021	_	Indigenous
13	1990	Sedimentation tubes -	1 cordary, 2021		margenous
	Reviewed In: 2021	Specification: Part 2 wintrobe tube			
<u> </u>		(Second Revision)			
14	IS 3742 : 1990	Medical glass instruments -	February, 2021	-	Indigenous
	Reviewed In: 2021	Pipettes, dilution for			
		haemocytometers specification			
		(Second Revision)			
15	IS 4067 : 1967	Specification for tube, swab (West	March, 2022	-	Indigenous
	Reviewed In: 2022	Type), for throat	,		
16	IS 4069 : 2024	Medical Laboratory Glassware -		_	Indigenous
10	13 4009 . 2024	· · · · · · · · · · · · · · · · · · ·			margenous
		Urinometer - Specification (First			
<u> </u>	77 100- 2021	Revision)			
17	IS 4087 : 2024	Medical Laboratory Glassware		-	Indigenous
		Pipette for Haemoglobinometer			
		and Blood Pipette for Biochemical			
		Work - Specification Second			
		Revision			
18	IS 4364 : 2024	Medical Laboratory Glassware		_	Indigenous
10	15 .50 202 .	Serological Pipettes - Specification			maigenous
		First Revision			
10	IS 4381 : 1967		March 2022	3	In diagnoss
19		Specification for pathological	March, 2022	3	Indigenous
L	Reviewed In: 2022	microscope			
20	IS 4444 : 1967	Specification for bottles,	March, 2022	1	Indigenous
	Reviewed In: 2022	bacteriological			
21	IS 4529 : 1968	Specification for glass tubes for	January, 2018	-	Indigenous
	Reviewed In: 2018	medical thermometers			
	Reaffirmed but not				
	taken up for revision				
	1				
22	IS 4708 : 2024	Medical Laboratory Glassware -			Indigenous
	15 1700 1202 1	Conical Urine Glass - Specification			margenous
		(First Revision)			
	IC 4754 2024	` ′			To dia an area
23	IS 4754 : 2024	Medical Laboratory Glassware -		- I	Indigenous
		Staining Troughs and Jar -			
<u> </u>		Specification (First Revision)			
24	IS 5155 : 1969	Specification for pipettes, ostwald -	January, 2024	-	Indigenous
L	Reviewed In: 2024	Folin type			
25	IS 6606 : 2024	Medical Laboratory Glass		-	Indigenous
1		Apparatus Esbachs Albuminometer			<u> </u>
1		Specification First Revision			
26	IS 6942 : 1973	Specification for flask, roux,	March, 2022	_	Indigenous
20	Reviewed In : 2022	bacteriological, with or without	141d1C11, 2022		muigenous
1	Reviewed III . 2022	_			
1		offset neck (1000 Ml Nominal			
<u></u>	YO 60 12 222	Capacity)			· ··
27	IS 6943 : 2024	Medical Laboratory Glassware -		-	Indigenous
1		Cover Glass used with			
1		Haemocytometer - Specification			
1		(Second Revision)			
28	IS 6944 : 1973	Specification for bottle, bijou,	March, 2022	-	Indigenous
-	Reviewed In: 2022	bacteriological	, - v		
29	IS 7039 : 1973	Specification for tube, culture,	March, 2022	_	Indigenous
-		-	11141011, 2022		maigonous
\vdash	Reviewed In: 2022	screw cap		+	

1	30	IS 7183 : 1973	Specification for flask, culture,	March, 2022	-	Indigenous
L		Reviewed In: 2022	haffkine			
ſ	31	IS 8501 : 1977	Specification for anaerobic jar	March, 2022	-	Indigenous
ı		Reviewed In: 2022				
ſ	32	IS 9430 : 1980	Specification for tube, haemometer	March, 2022	-	Indigenous
-1		Reviewed In : 2022				

Standards under Development

		Projects Approved
SI. No.	Doc No.	Title
1	MHD 10 (25169) Revision	Medical Laboratory Glassware Roux Bacteriological Flask - Specification First Revision
	of: IS 6942:1973	
2	MHD 10 (25170) Revision	Medical Laboratory Glassware Bijou bacteriological bottle - Specification First Revision
	of: IS 6944:1973	
3	MHD 10 (25171) Revision	Medical Laboratory Glassware Culture tube with screw cap - Specification First Revision
	of: IS 7039:1973	
4	MHD 10 (25172) Revision	Medical Laboratory Glassware Anaerobic jar - Specification First Revision
	of: IS 8501:1977	
5	MHD 10 (25173) Revision	Medical Laboratory Glassware Haemometer Tube Specification First Revision
	of: IS 9430:1980	
6	MHD 10 (25174) Revision	Medical Laboratory Glassware Thin walled glass capillary pipettes - Specification First Revision
	of: IS 11383:1985	
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 - Grdient Themocyclers - General Requirements
10	MHD 10 (25178)	Medical Laboratory Instrument - Platelet Incubator with Agitator- General Requirements
11	MHD 10 (25179)	Medical Laboratory Instrument - Anearobic Workstation - General Requirements

	Preliminary Draft Standards				
SI. No.	SI. No. Doc No. Title				
	No Records Found				

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

		Draft Standards Completed WC Stage			
SI. No.	Doc No.	Title			
	No Records Found				

	Finalized Draft Indian Standard			
SI. No.	Doc No.	Title		
No Records Found				

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

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

1	IS/ISO 17593 : 2007	
		Clinical laboratory testing and in vitro medical devices - Requirements for in vitro monitoring
	ISO 17593:2007	systems for self-testing of oral anticoagulant therapy
	IS/IEC 60695-1-10:2016	
2	IS 3238 : 1965	Dimensions for hypodermic syringes interchangeable type
	70 / 77 7 10 10	
3	IS 4557 : 1968	Appliances office flat adjustable for artificial limbs
	Reviewed In: 2006	
4	IS 4608 : 1968	Brush-holding device for artificial limbs
	IS 4612 : 1968	C heat terminal device aming leaded for outificial limbs
5	15 4012 : 1908	C-hook terminal device spring loaded for artificial limbs
6	IS 4657 : 1968	Ring Device For Artificial Limbs
· ·	15 4037 . 1700	King Device For Artificial Elinos
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	Hand Dress
	Reviewed In: 2006	
13	IS 5588 : 1970	Quadriceps Boots
	70 -011 10-0	
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
15	18 0413 : 1972	Floor springs Hydraunicany Regulated for heavy doors - Specification Second Revision
16	IS 6423 : 1972	Simple single axis steel hip joint for above knee conventional prosthesis
10	15 0425 . 1772	Simple single axis seer inp joint for above knee conventional prostnesss
17	IS 6424 : 1972	Simple axis steel knee joint for below knee conventional prosthesis
	10 0 .2 1 / / 2	Simple and steel inter joint for colon knee conventional production
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

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	Single - Use containers for human venous blood specimen collection First Revision
	ISO 6710 : 2017	
	ISO 6710: 2017	
3	IS 10916 : 1984	Specification for evacuated tubes for blood specimen - Collection Vacutainers
	Reviewed In: 2022	
4	IS 11383 : 1985	Specification for thin walled glass capillary pipettes
	Reviewed In: 2022	
5	IS 12622 : 1989	Medical thermometers for hypothermia subnormal range - Specification
	Reviewed In: 2021	
	Reaffirmed but not taken up	
	for revision	
6	IS 14284 : 1995	Laboratory glassware - Disposable pasteur pipettes - Specification
	ISO 7712	
	Reviewed In: 2021 ISO	
	7712:1983	
7	IS 3055 (Part 1): 1994	Clinical thermometers Part 1 solid stem type - Specification Second Revision
0	Reviewed In : 2021	
8	IS 3055 (Part 2) : 2004	Clinical thermometers Part 2 enclosed scale type - Specification Third Revision
	Reviewed In : 2019	Madical Laboratory Classroom Class Tubes for Dathalass World Creatification First Davision
9	IS 3740 : 2024	Medical Laboratory Glassware Glass Tubes for Pathology Work - Specification First Revision
10	IS 3741 (Part 1): 1990	Medical instruments sedimentation tubes - Specification Part 1 westergren tube Second Revision
10	Reviewed In : 2016	Medical histruments sedimentation tubes - Specification Part 1 westergren tube Second Revision
11	IS 3741 (Part 2): 1990	Medical glass instruments - Sedimentation tubes - Specification Part 2 wintrobe tube Second
1 11	Reviewed In : 2021	Revision
12	IS 3742 : 1990	Medical glass instruments - Pipettes dilution for haemocytometers specification Second Revision
12	Reviewed In: 2021	rection gass instruments 1 species unution for macinocytometers specification second revision
13	IS 4067 : 1967	Specification for tube swab West Type for throat
	Reviewed In: 2022	7f
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	Specification for pathological microscope
	Reviewed In: 2022	
18	IS 4444 : 1967	Specification for bottles bacteriological
	Reviewed In: 2022	
19	IS 4529 : 1968	Specification for glass tubes for medical thermometers
	Reviewed In: 2018	
	Reaffirmed but not taken up	
20	for revision	Medical Laboratory Classyons Conical Units Class Consideration First Profession
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	Specification for pipettes ostwald - Folin type
	Reviewed In: 2024	
23	IS 6606 : 2024	Medical Laboratory Glass Apparatus Esbachs Albuminometer Specification First Revision
•	•	•

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