

Name: Zeheng Metrology & Test (Beijing) Co., Ltd.
Address: Room 511, Building 6, Yard 26, Yongwang West Road, Daxing Biomedical Industry Base, Zhongguancun Science Park, Daxing District, Beijing, China
Registration No. CNAS L13124
Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS
Effective Date: 2024-12-27 Expiry Date: 2026-02-17

SCHEDULE 5 ACCREDITED CALIBRATION AND MEASUREMENT CAPABILITY SCOPE

Note: The instruments with * represents onsite calibration can be performed.

No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
I .Geometry							
1	*Biological Microscopes	Magnification	C.S. for Biological Microscopes JJF 1402	4×~100×	$U_{rel}=1.1\%$		
		Length		(0~10)mm	$U=2.2\text{ }\mu\text{ m}$		
2	*Current Calipers	Length	V.R. of Current Calipers JJG 30	(0~300)mm	$U=0.01\text{ mm}$		
				(300~500)mm	$U=0.02\text{ mm}$		
3	*Height Caliper	Length	V.R. of Height Caliper JJG 31	(0~300)mm	$U=0.01\text{ mm}$		
				(300~500)mm	$U=0.02\text{ mm}$		
4	*Thickness Gauges	Length	C.S. for Thickness Gauges JJF 1255	(0~1)mm	$U=2\text{ }\mu\text{ m}$		
				(0~10)mm1, mm<S≤10mm	$U=3\text{ }\mu\text{ m}$		



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				(0~30)mm, 10mm< S ≤ 30 mm	$U=4 \mu m$		
5	*Metallurgical Microscope	Magnification	C.S. for Metallurgical Microscopes JJF 1914	$4\times \sim 100\times$	$U_{rel}=1.3\%$		
		Length		(0~10)mm	$U=1.0 \mu m$		
6	*Stereomicroscope	Magnification	C.S. for Stereomicroscope JJF (Min) 1063	$1\times \sim 100\times$	$U_{rel}=1.1\%$		
7	*Projectors	Length	C.S. for Projectors JJF 1093	(0~300)mm	$U=1.0 \mu m+4\times 10^{-6}L$		
8	*Dial Gauges	Length	V.R. of Dial Gauges JJG 34	Dial Gauges reading in 0.01mm: (0~10)mm	$U=4 \mu m$		
				Dial Gauges reading in 0.001mm: (0~1)mm	$U=1.3 \mu m$		
				Dial Gauges reading in 0.001mm: (0~10)mm, 1mm< $S\leq 10$ mm	$U=2.5 \mu m$		
9	*Dial Test Indicator	Length	V.R. of Dial Test Indicator JJG 35	Dial Test Indicator reading in 0.01mm: (0~ 1)mm	$U=2.0 \mu m$		
				Dial Test Indicator reading in 0.001mm: (0~0.4)mm	$U=1.5 \mu m$		
10	Test Sieves	Length	C.S. for Test Sieves JJF 1175	(0.25~4)mm	$U=4 \mu m$		
				(4~125)mm	$U=0.04mm$		
11	*Micrometer	Length	V.R. of Micrometer JJG 21	(0~25)mm	$U=0.9 \mu m$		
12	Steel Rule	Length	V.R. of Steel Rule JJG 1	(0~1000)mm	$U=0.05mm+4\times 10^{-5}L$		
II. Thermal							



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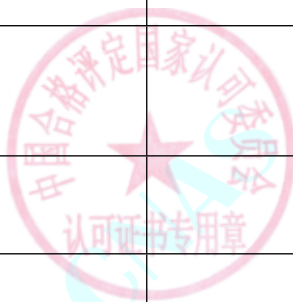
№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
1	*Equipment of the Environmental Testing	Temperature	Calibration Specification for Environmental Testing	$(-80 \sim +300)^{\circ}\text{C}$	$U=0.3^{\circ}\text{C}$		
		Relative Humidity	Equipment for Temperature and Humidity Parameters JJF 1101	$20\% \sim 90\%$	$U=1.5\%$		
2	*Box-type Resistance Furnace	Temperature	Calibration Specification for Box-type Resistance Furnace JJF 1376	$(300 \sim 1100)^{\circ}\text{C}$	$U=1.6^{\circ}\text{C}$		
3	*Liquid constant temperature test equipment (water bath)	Temperature	Measurement Specification for Temperature Performance of Liquid Constant Temperature Testing Equipment JJF 2019	$(-80 \sim 300)^{\circ}\text{C}$	$U=0.32^{\circ}\text{C}$		
4	*Salt mist testing chambers	Temperature	Calibration Specification for salt mist testing chambers JJF(Zhe) 1125	$(0 \sim 75)^{\circ}\text{C}$	$U=0.3^{\circ}\text{C}$		
		Salt Fog Sinking Rate		$(1.0 \sim 2.0)\text{mL}/(80\text{cm}^2 \cdot \text{h})$ $(80\text{cm}^2 \cdot \text{h})$	$U=0.4\text{mL}/(80\text{cm}^2 \cdot \text{h})$		
5	*Biological Artificial Climate	Temperature	Calibration Specification for Equipment of Biological Artificial Climate JJF (Zhe) 1102	$(5 \sim 40)^{\circ}\text{C}$	$U=0.3^{\circ}\text{C}$		
		Relative Humidity		$50\% \sim 90\%$	$U=2.1\%$		
		illuminance		$(60 \sim 7000)\text{lx}$	$U_{\text{rel}}=7\%$		
6	*steam sterilizer	Temperature	Calibration Specification for Temperature and	$(0 \sim 138)^{\circ}\text{C}$	$U=0.4^{\circ}\text{C}$		
		Pressure	Pressure parameters of Stream Sterilizer JJF(hu)60	$(10 \sim 600)\text{kPa}$	$U=1.6\text{kPa}$		
7	*Dissolution Testers	Temperature	Calibration Specification for Dissolution Testers	$(0 \sim 50)^{\circ}\text{C}$	$U=0.3^{\circ}\text{C}$		
		speed	JJF(Yu)191	$(10 \sim 200)\text{r}/\text{min}$	$U_{\text{rel}}=1\%$		
8	Mechanical Thermo-	Temperature	Verification Regulation of Mechanical Thermo-	$(5 \sim 50)^{\circ}\text{C}$	$U=0.36^{\circ}\text{C}$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
	hygrometers	Relative Humidity	hygrometers JJG 205	30%~90% , (20℃)	$U=2.1\%$		
9	Digital Temperature-hygrometers	Relative Humidity	Calibration Specification for Digital Temperature-hygrometers JJF 1076	20%~90%	$U=1.6\%$		
		Temperature		(-40~70)℃	$U=0.3^{\circ}\text{C}$		
10	*Thermostatic bath	Temperature	Measurement and Test Norm of Metrological Characteristics of Thermostatic Baths for Temperature Calibration JJF 1030	temperature uniformity: (-80~+300)℃	$U=0.006^{\circ}\text{C}$		
				Temperature stability: (-80~+300)℃	$U=0.008^{\circ}\text{C}$		
11	Base Metal Thermocouples	Temperature	Calibration Specification for Base Metal Thermocouples JJF 1637	(-40~300)℃	$U=0.4^{\circ}\text{C}$		
				(>300~1000)℃	$U=1.6^{\circ}\text{C}$		
12	Industry Platinum and Copper Resistance Thermometers	Temperature	Verification Regulation of Industry Platinum and Copper Resistance Thermometers JJG 229	(-80~300)℃	$U=0.08^{\circ}\text{C}$		
13	Standard Mercury-in-Glass Thermometers	Temperature	Verification Regulation of Standard Mercury-in-Glass Thermometers JJG 161	(-60~300)℃	$U=0.06^{\circ}\text{C}$		
14	Liquid-in-Glass Thermometers for Working	Temperature	Verification Regulation of Liquid-in-Glass Thermometers for Working JJG 130	(-80~300)℃	$U=0.06^{\circ}\text{C}$		
15	Clinical Thermometers	Temperature	Verification Regulation of Clinical Thermometers JJG 111	(30.0~43.0)℃	$U=0.06^{\circ}\text{C}$		
16	Clinical Electronic Thermometers	Temperature	Verification Regulation of Clinical Electronic Thermometers JJG 1162	(30.0~43.0)℃	$U=0.1^{\circ}\text{C}$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
17	Bimetallic Thermometers	Temperature	Calibration Specification for Bimetallic Thermometers JJF 1908	(-40~300)°C	U=0.4°C		
18	*Digital Thermometer	Temperature	Calibration Specification for Digital Thermometer JJF(su) 95	(-80~300)°C (>300~1000)°C	U=0.12°C U=1.6°C		
19	Filled System Thermometers	Temperature	Calibration Specification for Filled System Thermometers JJF 1909	(-40~300)°C	U=0.4°C		
20	*Temperature Indicators and Simulators by Electrical Simulation and Measurement	Temperature	Calibration Specification of Temperature Indicators and Simulators by Electrical Simulation and Measurement JJF 1309	thermocouple Output: (-200~1300)°C thermocouple Input: (-200~1300)°C Thermal resistance Output: (-200~1300)°C Thermal resistance Input: (-200~1300)°C	U=0.1°C U=0.15°C U=0.1°C U=0.15°C		
21	*Temperature Data Acquisition Instruments	Temperature	Calibration Specification of Temperature Data Acquisition Instruments JJF 1366	(-80~300)°C	U=0.10°C		
22	Temperature Itinerant Detecting Instrument	Temperature	Calibration Specification for Temperature Itinerant Detecting Instrument JJF 1171	(-60~300)°C	U=0.10°C		
23	*Temperature Transmitter	Temperature	Calibration Specification of the Temperature Transmitter JJF 1183	Sensor: (-80~300)°C Sensor: (>300~1200)°C	U=0.4°C U=1.6°C		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				No sensor: (-200~1300) °C	U=0.3°C		
24	*Emperature Demonstrator	Temperature	Calibration Specification for Temperature Indicators JJF 1664	K: (-200~1300)°C Rtp: (-200~600)°C	U=0.2°C U=0.2°C		
25	Temperature Calibration Devices for Polymerase Chain Reaction Analyzers	Temperature	Calibration Specification of Temperature Calibration Devices for Polymerase Chain Reaction Analyzers JJF 1821	(0~120)°C	U=0.06°C		
26	Radiation Thermometers	Radiation Temperature	Verification Regulation of Radiation Thermometers JJG 856	(30~200)°C (200~550)°C	U=0.6°C U=1.3°C		
27	Thermal Imagers	Radiation Temperature	Calibration Specification for Thermal Imagers JJF 1187	(30~200)°C (200~550)°C	U=0.6°C U=1.3°C		
28	Temperature Block Calibrators	Temperature	Calibration Guideline of the Tmeperature Block Calibrators JJF1257	(-80~400)°C	U=0.06°C		
29	*Drug Stability Illumination Test Chambers	Temperature Relative humidity Illuminance UV radiation illuminance.	Calibration Specification of Drug Stability Illumination Test Chambers JJF(chuan) 175	(10~65)°C 10%~80% (60~8000)lx (50~100) μ W/cm²	U=0.3°C U=2.2% U _{rel} =7% U _{rel} =16%	Acredited only for UV-A radiation illuminance	
30	Mechanical Thermometers of Refrigerator	Temperature	Calibration Specification for Mechanical Thermometers of Refrigerator JJF(xin) 47	(-40~50)°C	U=0.36°C		
31	Dry Block	Temperature	Verification Regulation of	(10~200)°C	U=0.6°C		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Digester		Dry Block Digester JJG(yue) 029	(200~400)°C	U=1.2°C		
32	*Calibration Specification for Dry Bath Incubator for biological experiments	Temperature	Calibration specification for Dry Bath Incubator for biological experiments JJF (zhe) 1149	(10~150)°C	U=0.5°C		
33	*Carbon Dioxide Incubator	Temperature	Calibration Specification for Carbon Dioxide Incubator JJF(liao)463	(15~55)°C	U=0.3°C		
		Carbon Dioxide concentration		(4~16)%mol/mol	U=1.2%FS		
34	Thermo-anemoscopes	Wind speed	Calibration Specification for Thermo-anemoscopes JJF 1939	(0.3~30)m/s	U=(0.1~0.2)m/s		
35	Air Flow Hood	air-flow quantity	Calibration specification for air flow hood JJF(jing)116	(100~3500)m³/h	U _{rel} =1.7%		
36	*Cold chain temperature and humidity monitoring equipments	Temperature	Calibration Specification of Cold chain temperature and humidity monitoring equipments JJF (jing) 87	(-80~+50)°C	U=0.3°C		
		Relative Humidity		20%~90%	U=1.4%		
37	*Temperature and Humidity Standard Chambers	Temperature	Calibration Specification for Temperature and Humidity Standard Chambers JJF 1564	(5~50)°C	U=0.11°C		
		Relative Humidity		20%~90%	U=0.5%		
38	*Constant temperature and humidity laboratory	Temperature	Calibration Specification for Environment Parameters of Constant Temperature and Humidity Laboratories JJF 2058	(15~30)°C	U=0.2°C		
		Relative Humidity		30%~80%	U=1.3%		
		Illuminance		(50~1000)lx	U _{rel} =2%		



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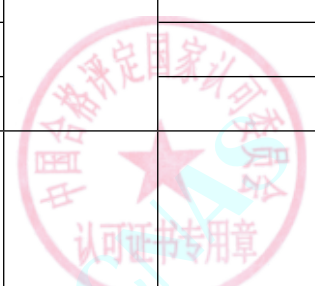
No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
		Wind speed		(0.2~10)m/s	$U=2\%FS$		
		Noise		(30~100)dB	$U=1.0dB$		
		Pressure		(5~50)Pa	$U=1Pa$		
39	Wind speed transmitter	wind speed	Calibration Specification for Wind Speed Transducer JJF (zhe)1126	(1~30)m/s	$U=(0.1\sim0.3) \text{ m/s}$		
III . Mechanical							
1	Weights	Mass	Verification Regulation of Weights JJG 99	(1~100) mg	$U=(0.003\sim0.010) \text{ mg}$		
				100mg~5g	$U=(0.010\sim0.038) \text{ mg}$		
				(5~200) g	$U=(0.038\sim0.16) \text{ mg}$		
				200g~1kg	$U=(0.16\sim1.3) \text{ mg}$		
				(1~5) kg	$U=(1.3\sim8.9) \text{ mg}$		
				(5~25) kg	$U=8.9\text{mg}\sim0.09\text{g}$		
2	*Mechanical Balance	Mass	Verification Regulation of Mechanical Balance JJG 98	(1~100)g	$U=(0.04\sim0.18)\text{mg}$		
				100g~10kg	$U=0.18\text{mg}\sim0.60\text{g}$		
				(10~30) kg	$U=(0.60\sim1.7) \text{ g}$		
3	*Electronic Balance	Mass	Electronic Balance JJG 1036, Calibration Specification for Electronic Balances JJF 1847	(1~100) mg	$U=(0.024\sim0.03) \text{ mg}$		
				100mg~10g	$U=(0.03\sim0.042) \text{ mg}$		
				(10~100) g	$U=(0.042\sim0.094) \text{ mg}$		
				(100~300) g	$U=(0.094\sim0.32) \text{ mg}$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
				300g~6kg	$U=(0.32\sim6.3)\text{ mg}$		
				(6~30) kg	$U=6.3\text{mg}\sim10\text{g}$		
				(30~600) kg	$U=(10\sim20)\text{ g}$		
4	*Table Balances	Mass	Verification Regulation for Table Balances JJG 156	10mg~1g	$U=(0.2\sim0.4)\text{ mg}$		
				(1~100) g	$U=(0.4\sim1.4)\text{ mg}$		
				(0.1~10) kg	$U=1.4\text{mg}\sim1.2\text{g}$		
5	*Non-self- indicating Weighing Instruments	Mass	Verification Regulation of Non-self-indicating Weighing Instruments JJG 14	(0.02~2)kg	$U=(0.32\sim11)\text{g}$		
				(2~100) kg	$U=(11\sim14)\text{ g}$		
				100kg~1t	$U=14\text{g}\sim0.12\text{kg}$		
6	*Digital Indicating Weighing Instruments	Mass	Verification Regulation for Digital Indicating Weighing Instruments JJG 539	(0.02~2)kg	$U=(0.32\sim11)\text{g}$		
				(2~100) kg	$U=(11\sim14)\text{ g}$		
				100kg~2t	$U=14\text{g}\sim0.22\text{kg}$		
7	*Analogue Indicating Weighing Instruments	Mass	Verification Regulation of Analogue Indicating Weighing Instruments JJG 13	(0.02~2)kg	$U=(0.32\sim11)\text{g}$		
				(2~100) kg	$U=(11\sim14)\text{ g}$		
				(100~500)kg	$U=(14\sim80)\text{g}$		
8	*Discontinuous Totalizing Automatic Weighing Instruments(Totali zing Hopper Weighers)	Mass	Verification Regulation of Discontinuous Totalizing Automatic Weighing Instruments(Totalizing Hopper Weighers) JJG 648	0.2kg~1t	$U_{\text{rel}}=0.16\%$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
9	Working Glass Container	Capacity	Verification Regulation of Working Glass Container JJG 196	(0.01~1)mL	$U=0.7 \mu\text{L}$		
				(1~10)mL	$U=3 \mu\text{L}$		
				(10~20)mL	$U=8 \mu\text{L}$		
				(20~100)mL	$U=18 \mu\text{L}$		
				(100~200)mL	$U=0.04 \text{ mL}$		
				(200~ 500)mL	$U=0.07 \text{ mL}$		
				(500~1000)mL	$U=0.12 \text{ mL}$		
				(1000~2000)mL	$U=0.18 \text{ mL}$		
10	Special Glassware	Capacity	Verification Regulation of Special Glassware JJG 10	(0.01~20)mL	$U=8 \mu\text{L}$		
				(20~100)mL	$U=18 \mu\text{L}$		
11	Locomotive Pipette	Capacity	Verification Regulation of Locomotive Pipette JJG 646	(0.1~1) μL	$U=0.01 \mu\text{L}$		
				(1~50) μL	$U=0.2 \mu\text{L}$		
				(50~300) μL	$U=0.7 \mu\text{L}$		
				(300~2500) μL	$U=3 \mu\text{L}$		
				(2500~10000) μL	$U=15 \mu\text{L}$		
12	*Quantitative Filling Machine for Liquid Material	Capacity	Verification Regulation of Quantitative Filling Machine for Liquid Material JJG 687	(0.4~50)L	$U_{\text{rel}}=0.33\%$		
		Mass		(0.4~50)kg	$U_{\text{rel}}=0.1\%$		
13	*Elastic Element Precise Pressure Gauges and Vacuum Gauges	Pressure	Verification Regulation of Elastic Element Precise Pressure Gauges and Vacuum Gauges JJG 49	(-0.1~6) MPa	$U=0.16\%\text{FS}$		
				(6~60) MPa	$U=0.25\%\text{FS}$		

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14	*Elastic Element Pressure Gauges, Pressure-Vacuum Gauges and Vacuum Gauges for General Use	Pressure	Verification Regulation of Elastic Element Pressure Gauges, Pressure-Vacuum Gauges and Vacuum Gauges for General Use JJG 52	(-0.1~60) MPa	$U=0.6\%FS$		
15	*Digital Pressure Gauges	Pressure	Verification Regulation of Digital Pressure Gauges JJG 875	(-0.1~6) MPa	$U=0.06\%FS$		
				(6~60) MPa	$U=0.08\%FS$		
16	*Pressure Transducer(Static)	Pressure	Verification Regulation of Pressure Transducer(Static) JJG 860	(-0.1~6) MPa	$U=0.06\%FS$		
				(6~60) MPa	$U=0.08\%FS$		
17	*Pressure Controllers	Pressure	Verification Regulation of Pressure Controller JJG 544	(-0.1~6) MPa	$U=0.06\%FS$		
				(6~60) MPa	$U=0.08\%FS$		
18	*Pressure Transmitter	Pressure	Verification Regulation of Pressure Transmitters JJG 882	(-0.1~6) MPa	$U=0.06\%FS$		
				(6~60) MPa	$U=0.08\%FS$		
19	*Differential Micro-pressure gauge	Pressure	Field Calibration Specification for Differential Micro-pressure Gauge JJF (Jing) 63	(-1000~1000)Pa	$U=0.6\%FS$		
20	*Friability Surveymeter	speed	Calibration Specification for Friability Surveymeter JJF (Lu) 92	(10~200)r/min	$U_{rel}=2.4\%$		
		Length		(0~300)mm	$U=0.04mm$		
21	Float Meter	Flow	Verification Regulation of Float Meter JJG 257	(1~2)L/min	$U_{rel}=2.0\%$	Calibrate only level 2.5 and below and	



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				(5~100)L/min	$U_{rel}=0.8\%$	gas medium.	
22	Soap Film Flow meter	Capacity	Verification Regulation of Soap Film Flow meter JJG 586	(10~6000)mL	$U_{rel}=0.6\%$	Calibrate soap film tubes only.	
23	*Working Dynamometers	Force value	Verification Regulation of Working Dynamometers JJG 455	0.5N~1kN	$U_{rel}=0.36\%$		
24	*Tension, Compression and Universal Testing Machines	Force value	Verification Regulation of Tension, Compression and Universal Testing Machines JJG 139	0.5N~100kN	$U_{rel}=0.36\%$		
25	Working Glass Hydrometers	content	Verification Regulation of Working Glass Hydrometers JJG42	Alcohol meter (0~100) %	$U=0.2\%$		
				Densitometer (800~1500) kg/m ³	$U=0.5\text{kg/m}^3$		
26	*Steelyard Scales	Quality	Verification Regulation of Steelyard Scales JJG 17	(20~500)g	$U_{rel}=0.3\%$		
27	Reference Leaks by Soap Film Flowmeter	Leakage rate	Calibration Specification for Reference Leaks by Soap Film Flowmeter JJF 1627	1mL/min~1L/min	$U_{rel}=2.0\%$		
28	*Micro sampling syringe	Capacity	Calibration Specification of Micro sampling syringe JJG (Ji) 166	(0.1~20) μL	$U=0.01 \mu\text{L}$		
				(20~1000) μL	$U=0.4 \mu\text{L}$		
29	*Peristaltic Pumps	Traffic	Calibration Specification for Peristaltic Pumps JJF(Min)1115	(0.1~1000)mL/min	$U_{rel}=0.3\%$		
		speed		(20~600)r/min	$U_{rel}=0.3\%$		
30	*Automatic Gravimetric Filling Instruments	weight	Verification Regulation of Automatic Gravimetric Filling Instruments JJG 564	(5~5000)g	$U=0.6\text{g}$		
				(5~30)kg	$U=4.1\text{g}$		



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31	*Medical Centrifuges	Temperature	Calibration Specification for Medical Centrifuges JJF 2004	(-20～50)℃	<i>U</i> =0.3 ℃		
		speed		(20～20000)r/min	<i>U</i> _{rel} =0.1%		
		Time		(10～2000)s	<i>U</i> =0.1s		
32	Ralative Density Balance for Liquid	relative density	Verification Regulation of Ralative Density Balance for Liquid JJG 171	(0.0001～2.0000)	<i>U</i> _{rel} =0.058%		
33	*Liquid Flowmeter (Online)	Flow	Online Calibration Specification for Liquid Flowmeter JJF(Chuan) 159	(0.24～4.4) m/s	<i>U</i> _{rel} =1.8%		
34	*Liquid Level Gauges	Pressure	Verification Regulation of Liquid Level Gauges JJG 971	(-0.1～6)MPa	<i>U</i> =0.13%FS	Calibrate pressure type only.	
35	*Syringe Pumps and Infusion Pumps	Flow	Calibration Specification for Syringe Pumps and Infusion Pumps JJF 1259	(5～20)mL/h	<i>U</i> _{rel} =2.4%		
				(20～200)mL/h	<i>U</i> _{rel} =2.2%		
				(200～1000)mL/h	<i>U</i> _{rel} =3.5%		
		Pressure		(0～200)kPa	<i>U</i> =2.7kPa		
36	*Taking Blood Electronic Scales	Mass	Verification Regulation of Taking Blood Electronic Scales JJG 815	(0～1)kg	<i>U</i> =0.12g		
		Frequency		(28～32)Times/minute	<i>U</i> =0.4Times/minute		
IV. Chemistry							
1	*Ultraviolet,Visible, Spectrophotometers	Wavelength	Verification Regulation of Ultraviolet,Visible,Near-Infrared Spectrophotometers JJG 178	(200～900)nm	<i>U</i> =0.4nm		
		Transmittance		7%～35%	<i>U</i> =0.6%		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
2	*Fourier Transform Infrared Spectrometers	Wave Number	Calibration Specification for Fourier Transform Infrared Spectrometers JJF 1319	(4000~400) cm^{-1}	$U=0.3\text{cm}^{-1}$		
3	*Atomic Absorption Spectrophotometers	Limit of Detection	Verification Regulation of Atomic Absorption Spectrophotometers JJG 694	Cu: $\leq 0.02\mu\text{g/mL}$	$U=0.005\mu\text{g/mL}$		
				Cd: $\leq 4\text{pg}$	$U=0.05\text{pg}$		
4	*Fluorescence Spectrophotometer	Limit of Detection	Verification Regulation of Fluorescence Spectrophotometer JJG 537	$\leq 1 \times 10^{-8}\text{g/mL}$	$U=7.0 \times 10^{-13} \text{g/mL}$	Except for Class A instruments	
		Wavelength		(220~900)nm	$U=0.5\text{nm}$		
5	* Atomic Fluorescence Spectrophotometers	Limit of Detection	Verification Regulation of Atomic Fluorescence Spectrophotometers JJG 939	As、Sb : $\leq 3\text{ng}$	$U_{\text{rel}}=3.5\%$		
6	*ICP Emission Spectrometer	Limit of Detection	Verification Regulation of Emission Spectrometer JJG 768	Zn $\leq 0.01 \text{ mg/L}$	$U_{\text{rel}}=7\%$		
				Ni $\leq 0.03 \text{ mg/L}$	$U_{\text{rel}}=7\%$		
				Mn $\leq 0.005 \text{ mg/L}$	$U_{\text{rel}}=7\%$		
				Cr $\leq 0.02 \text{ mg/L}$	$U_{\text{rel}}=7\%$		
				Cu $\leq 0.02 \text{ mg/L}$	$U_{\text{rel}}=7\%$		
				Ba $\leq 0.005 \text{ mg/L}$	$U_{\text{rel}}=7\%$		
7	*Flame Photometer	Limit of Detection	Verification Regulation of Flame Photometer JJG 630	K: $\leq 0.004\text{mmol/L}$	$U=0.0002\text{mmol/L}$		
				Na: $\leq 0.008\text{mmol/L}$	$U=0.0012\text{mmol/L}$		
8	*Polarimeter and Polarimetric Saccharimeters	optical rotation	Verification Regulation of Polarimeter and Polarimetric Saccharimeters JJG 536	($-45^{\circ} \sim 45^{\circ}$)	$U=0.008^{\circ}$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
9	* Hand Saccharimeter(Content-meter) and Hand Refractometer	sugar content	Verification Regulation of Hand Saccharimeter(Content-meter) and Hand Refractometer JJG 820	10%~50%	U=0.4%		
		Refractive index		nD: 1.330~1.520	U _{rel} =1.1%		
10	*Mercury Analyzers	Limit of Detection	Verification Regulation of Mercury Analyzers JJG 548	≤1.0ng	U=0.3ng		
				≤0.1ng	U=0.04ng		
11	* Gas Chromatographs	Sensitivity	Verification Regulation of Gas Chromatographs JJG 700	TCD : ≥ 800mV • mL/mg	U _{rel} = 5%		
		Detection Limit		FID: ≤0.5ng/s	U _{rel} =4%		
				FPD: ≤0.5ng/s(S) ; ≤ 0.1ng/s(P)	U _{rel} =4%		
				NPD: ≤5pg/s(N) ; ≤ 10pg/s(P)	U _{rel} =4%		
				ECD: ≤5pg/mL	U _{rel} = 5%		
12	*Liquid Chromatographs	Minimum Detectable Concentration	Verification Regulation of Liquid Chromatographs JJG 705	VWD: ≤5×10 ⁻⁸ g/mL	U _{rel} =9%		
				DAD: ≤5×10 ⁻⁸ g/mL	U _{rel} =9%		
				FLD: ≤5×10 ⁻⁹ g/mL	U _{rel} =9%		
				RID: ≤5×10 ⁻⁶ g/mL	U _{rel} =10%		
				ELSD: ≤5×10 ⁻⁶ g/mL	U _{rel} =10%		
13	* Ion Chromatographs	Minimum Detectable Concentration	Verification Regulation of Ion Chromatographs JJG 823	Conductance Detector(Cl ⁻): ≤0.02 μ g/mL	U _{rel} =13%		
				Conductance Detector(Li ⁺): ≤0.02 μ g/mL	U _{rel} =13%		



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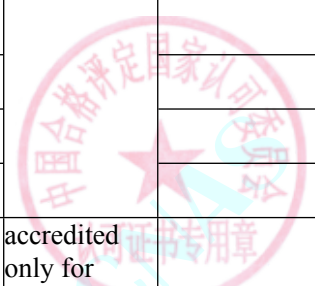
№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
				UV-Vis Detector: ≤ 0.02 $\mu\text{g/mL}$	$U_{\text{rel}}=13\%$		
				Electrochemical Detector: ≤ 0.02 $\mu\text{g/mL}$	$U_{\text{rel}}=13\%$		
14	*Laboratory pH Meters	pH	Verification Regulation of Laboratory pH Meters JJG 119	Electricmeter pH: $0 \sim 14$	$U=0.01$	Except for 0.001 instruments	
				Instrument pH: $4.01 \sim$ 9.18	$U=0.02$		
		Voltage		$(-2000 \sim 2000)\text{mV}$	$U=0.2\text{mV}$		
15	*On-line pH Meters	pH	Calibration Specification for On-line pH Meters JJF 1547	Electricmeter pH: $0 \sim 14$	$U=0.01$		
				Instrument pH: $4.01 \sim$ 9.18	$U=0.02$		
		Voltage		$(-2000 \sim 2000)\text{mV}$	$U=0.2\text{mV}$		
		temperature		$(0 \sim 60)^{\circ}\text{C}$			
16	*Laboratory Ion Meters	pX	Verification Regulation of Laboratory Ion Meters JJG 757	Instrument: $2 \sim 4$	$U=0.02$		
				Electricmeter: $0 \sim 14$	$U=0.01$		
		Voltage		$(-2000 \sim 2000)\text{mV}$	$U=0.2\text{mV}$		
17	*Automatic Potentiometric Titrators	Voltage	Verification Regulation of Automatic Potentiometric Titrators JJG 814	$(-2000 \sim 2000)\text{mV}$	$U=0.3\text{mV}$		
				$0.1\text{mol/L}(\text{NaOH})$	$U_{\text{rel}}=0.5\%$		
				$(2 \sim 100)\text{mL}$			
18	*Electrolytic Conductivity Meters	Conductivity	Verification Regulation of Electrolytic Conductivity Meters JJG 376	Electronic Unit: $(0.05 \sim 2.0) \mu\text{S/cm}$	$U=2.0\%\text{FS}$		
				Electronic Unit: $(2 \sim$ $20000) \mu\text{S/cm}$	$U=0.2\%\text{FS}$		



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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				Instrument: (100~2000) μ S/cm	$U=1.2\%FS$		
19	*Instrument for KF Coulometry Titration	Content	Verification Regulation of Instrument for KF Coulometry Titration JJG 1044	(10~5000) μ g	$U_{rel}=1.8\%$		
20	* Dust Sampler	flow	Verification Regulation of Dust Sampler JJG 520	(6~60)L/min	$U_{rel}=1.2\%$		
21	*Karl Fischer Volumetric Titrators for Water Content	Moisture Content	Verification Regulation of Karl Fischer Volumetric Titrators for Water Content JJG 1154	0.1%~5.0%	$U_{rel}=2.5\%$		
22	*Samplers for Stack Dust	flow	Verification Regulation of Samplers for Stack Dust JJG 680	(5~60)L/min	$U_{rel}=1.7\%$		
23	*Air Samplers	flow	Verification Regulation of Air Samplers JJG 956	(0.1~6.0)L/min	$U_{rel}=1.5\%$		
24	* Total Suspended Particulates Sampler	flow	Verification Regulation of Total Suspended Particulates Sampler JJG 943	(20~120) L/min	$U_{rel}=1.5\%$		
		time		(0~3600) s	$U=0.2s$		
		air intake dimensions		(0~300)mm	$U=0.03mm$		
		temperature		(0~300) $^{\circ}C$	$U=0.6^{\circ}C$		
		barometric		(80~106)kPa	$U=0.5hPa$		
		load capacity		(0~10) kPa	$U_{rel}=2.7\%$		
25	* Liquid-borne Particle Counters	grain count(water base)	Verification Regulation of Liquid-borne Particle Counters JJG 1061	(10~3000)Granule/mL	$U_{rel}=5\%$	accredited only for water medium	



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		grain size(water base)		(5~200)μm		instrument	
26	*Airborne Particle Counter	Concentration	Calibration Specification for Airborne Particle Counter JJF 1190	(1~100000)/28.3L	$U_{rel}=8\%$		
		Flow		(0.1~100)L/min	$U_{rel}=2.4\%$		
27	*Static Light Scattering Particle Size Analyzers	Particle size	Calibration Specification for Static Light Scattering Particle Size Analyzers JJF1211	(2~250)μm	$U_{rel}=5\%$		
28	*Osmometers	Concentration	Verification Regulation of Osmometers JJG 1089	(100~400) mOsmol/kg	$U=2.0\text{mOsmol/kg}$		
				(400~700) mOsmol/kg	$U_{rel}=1.0\%$		
29	*Particulate Analyzer	Concentration	Calibration Specification for Particulate Analyzer JJF 1290	(10~3000)/mL	$U_{rel}=6\%$		
30	*Total Organic Carbon Analyzer	Concentration	Verification Regulation of Total Organic Carbon Analyzer JJG 821	(1~1000)mg/L	$U_{rel}=3\%$		
31	*Three purpose UV analyzer	illuminance	Calibration Specification for Three with UV analyzer JJF(dian)12	(20~500) μ W/cm ²	$U=23 \mu \text{ W/cm}^2$		
32	Flow Cup Viscometers	Time	Verification Regulation of Flow Cup Viscometers JJG 743	(10~150)s	$U=0.4\text{s}$		
33	Rotational Viscometers	Viscosity	V.R. of Rotational Viscometers JJG 1002	(2~100)mPa•s	$U_{rel}=2.0\%$	合格评定国家认可委员会 认可证书专用章	
				(100~2000)mPa•s	$U_{rel}=1.4\%$		
				(2000~120000)mPa•s	$U_{rel}=1.0\%$		
34	Engler Viscosimeter	Time	Verification Regulation of Engler Viscosimeter JJG 742	(50~52)s	$U=0.3\text{s}$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
35	*Quadrupole Inductively Coupled Plasma Mass Spectrometers	Limit of Detection	Calibration Specification for Quadrupole Inductively Coupled Plasma Mass Spectrometers JJF 1159	Be: $\leq 30\text{ng/L}$	$U=0.4\text{ng/L}$		
				In: $\leq 10\text{ng/L}$	$U=0.2\text{ng/L}$		
				Bi: $\leq 10\text{ng/L}$	$U=0.3\text{ng/L}$		
36	*Gas Chromatography-Mass Spectrometries	signal to noise ratio	Calibration Specification for Gas Chromatography-Mass Spectrometries JJF 1164	Lon trap 、 Single quadrupole rod($\text{EI}^+, \text{CI}^+, \text{CI}^-$): $\geq 10:1$	$U_{\text{rel}}=10\%$		
				Triple quadrupole pole(EI^+, CI^+): $\geq 10:1$	$U_{\text{rel}}=10\%$		
				Time of flight-Electrostatic 、 field orbital trap(EI^+): $\geq 50:1$	$U_{\text{rel}}=10\%$		
37	*Liquid Chromatography-Mass Spectrometers	signal to noise ratio	Calibration Specification for Liquid Chromatography-Mass Spectrometers JJF 1317	Single quadrupole rod&ion trap($\text{ESI}^+, \text{ESI}^-, \text{APCI}^+$): $\geq 10:1$	$U_{\text{rel}}=12\%$		
				Triple quadrupole pole($\text{ESI}^+, \text{APCI}^+$): $\geq 30:1$	$U_{\text{rel}}=12\%$		
				Triple quadrupole pole(ESI^-): $> 10:1$	$U_{\text{rel}}=12\%$		
38	*On-line Conductivity Meters	Conductivity	Calibration Specification for On-line Conductivity Meters JJF (xin) 19	Electronic Unit: (0.05~0.25) $\mu\text{S/cm}$	$U=0.5\%\text{FS}$		
				Electronic Unit: (0.25~2000) $\mu\text{S/cm}$	$U=0.3\%\text{FS}$		
				Instrument: (147~1420) $\mu\text{S/cm}$	$U_{\text{rel}}=0.5\%$		
39	*Kjeldahl Nitrogen Analyzer	Concentration	Calibration Specification for Elemental Analyzers JJF 1321	Nitrogen: 46.6%	$U_{\text{rel}}=1.4\%$		



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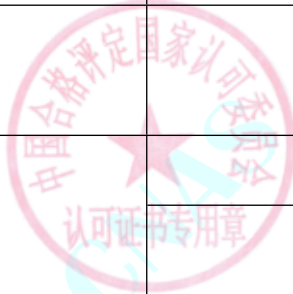
№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
40	*Bomb Calorimeter	Calories	Verification Regulation of Bomb Calorimeters JJG 672	(26000~27000) J/g	$U=40\text{J/g}$		
41	*Differential Scanning Calorimeters	Temperature	Verification Regulation of Differential Scanning Calorimeters JJG 936	(150~600)°C	$U=1.1\text{°C}$		
		Calories		(20~110)J/g	$U=1.8\text{J/g}$		
42	*Melting-point Measurement Instruments	melting point	Verification Regulation of Melting-point Measurement Instruments JJG 701	(50~300)°C	$U=0.3\text{°C}$		
43	*Open/Closed Cup Flash Point Testers	flash point	Calibration Specification for Open/ Closed Cup Flash Point Testers JJF 1384	Open Cup Flash Point : (110~230)°C	$U=8.0\text{°C}$		
				Closed Cup Flash Point : (70~160)°C	$U=5.0\text{°C}$		
44	*Analyzers for Oil Content in Water	Concentration	Verification Regulation of Analyzers for Oil Content in Water JJG 950	(1~1000)mg/L	$U_{\text{rel}}=4\%$		
45	*Turbidimeters	Turbidity	Verification Regulation of Turbidimeters JJG 880	(0.1~400)NTU	$U_{\text{rel}}=4\%$		
46	Dissolved Oxygen Meters	Dissolved Oxygen	Verification Regulation of Dissolved Oxygen Meters JJG 291	(5~12)mg/L	$U=0.10\text{mg/L}$		
47	*Chemical Oxygen Demand (COD) Meters	Concentration	Verification Regulation of Chemical Oxygen Demand (COD) Meters JJG 975	(50~1000)mg/L	$U_{\text{rel}}=3\%$		
48	*Residual Chlorine Meters	Concentration	Calibration Specification for Residual Chlorine Meters JJF 1609	Total residual chlorine(0.1~5)mg/L	$U_{\text{rel}}=2.6\%$		
				Free residual chlorine (0.1~5) mg/L	$U_{\text{rel}}=3.0\%$		
49	*Clarity Test Equipment	Illuminance	Calibration Specification for Clarity Test Equipment JJF 1287	(900~3000) lx	$U_{\text{rel}}=9\%$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
50	*Volatile Organic Compounds Photo Ionization Detectors	Concentration	Calibration Specification for Volatile Organic Compounds Photo Ionization Detectors JJF 1172	(200~800) μ mol/mol	$U_{rel}=2.4\%$		
51	*Air Plankton Samplers	Flow	Calibration specification of Air Plankton Samplers JJF(ji) 164-2019	(0.1~150)L/min	$U_{rel}=1\%$		
52	*Micro-spectrophotometers	Concentration	Calibration Specification for Micro-spectrophotometers JJF 1836	(1×10^3) ng/ μ L	$U_{rel}=7\%$		
53	*Automatic Amino Acid Analyzer	Detection Limit	Verification Regulation of Automatic Amino Acid Analyzer JJG 1064	DL: ≤ 1 nmol	$U_{rel}=10\%$		
54	*Thermogravimetric Analyzers	Temperature	Verification Regulation of Thermogravimetric Analyzers JJG 1135	Curie: (150~800) $^{\circ}$ C	$U=2^{\circ}$ C		
				melting point: (150~421) $^{\circ}$ C	$U=1.7^{\circ}$ C		
		Quality		(1~100)mg	$U=0.011$ mg		
55	*Nitrate-Nitrogen Automatic Analyzers	Concentration	Verification Regulation of Nitrate-Nitrogen Automatic Analyzers JJG 656	(0.1~100)mg/L	$U_{rel}=2.8\%$		
56	*Ammonia-Nitrogen Automatic Analyzers	Concentration	Verification Regulation of Ammonia-Nitrogen Automatic Analyzers JJG 631	(0.1~100)mg/L	$U_{rel}=3.2\%$		
57	*Water Quality On-line Analyzers of Total Phosphorus and Total Nitrogen	Concentration	Verification Regulation of Water Quality On-line Analyzers of Total Phosphorus and Total Nitrogen JJG 1094	Total Phosphorus: (0.1~500) mg/L	$U_{rel}=4\%$		
				Total Nitrogen: (0.1~500) mg/L	$U_{rel}=4\%$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
58	*Alarmer Detectors of Combustible Gas	Concentration	Verification Regulation of Alarmer Detectors of Combustible Gas JJG 693	(10~60) %LEL	$U_{rel}=3.0\%$	Accredited only for methane, hydrogen, isobutane alarms	
59	*Gel Permeation Chromatographs	Weight-average molecular weight	Verification Regulation of Gel Permeation Chromatographs JJG 342	glucan: (3x10 ³ ~6x10 ⁵) g/mol	$U_{rel}=8.0\%$		
				polystyrene: (4x10 ⁴ ~7x10 ⁵)g/mol	$U_{rel}=2.4\%$		
60	*Sulfur Hydrogen Gas Detectors	Concentration	Verification Regulation of Sulfur Hydrogen Gas Detectors JJG 695	(20~80) μ molL/molL	$U_{rel}=3.2\%$		
61	*Electrochemical Oxygen Meter	Concentration	Verification Regulation of Electrochemical Oxygen Meter JJG 365	(6~25) $\times 10^{-2}$ molL/molL	$U_{rel}=1.6\%$		
62	*Polymerase Chain Reaction Analyzers	Temperature	Calibration Specification for Polymerase Chain Reaction Analyzers JJF 1527	(30~95) $^{\circ}$ C	$U=0.2^{\circ}$ C		
		Concentration		(1.0~3.0) $\times 10^4$ copies/ μ L	$U_{rel}=12\%$		
63	*(Automatic) Nucleic Acid Extractors	Temperature	Calibration Specification for (Automatic) Nucleic Acid Extractors JJF 1874	(55~90) $^{\circ}$ C	$U=1.4^{\circ}$ C		
		Frequency		(20~500) Hz	$U=0.6$ Hz		
		Liquid take-up		(50~200) μ L	$U=1.2 \mu$ L		
		Recovery rate of nucleic acid extraction		20%~100%	$U=2.0\%$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
64	*Nucleic Acids Analyzers	Concentration	Calibration Specification for Nucleic Acids Analyzers JJF 1817	(0.5~50)ng/μL	$U=0.12\text{ng}/\mu\text{L}$		
65	*Water Hardness Meters	Concentration	Calibration Specification for Water Hardness Meters JJF 1949	(10~2000)mg/L	$U_{\text{rel}}=5\%$		
66	*Abbe Refractometer	Refractive index	Verification Regulation of Abbe Refractometer JJG 625	1.4~1.7	$U=8.0\times 10^{-5}$		
		Average dispersion		0.006~0.021	$U=2.0\times 10^{-4}$		
67	*Dynamic Light Scattering Particle Size Analyzers	Granularity	Verification Regulation of Dynamic Light Scattering Particle Size Analyzers JJG 1104	(50~1000)nm	$U_{\text{rel}}=4.2\%$		
68	*Thermogravimetric Moisture Meters	Mass	Verification Regulation of Thermogravimetric Moisture Meters JJG 658	1mg~200g	$U=(0.1\sim 0.4)\text{mg}$		
		Moisture content		95%	$U=0.05\%$		
69	*Fluorescence Meters of Nucleic Acid	Concentration	Calibration Specification for Fluorescence Meters of Nucleic Acid JJF (jing) 3024	(10~100)ng/μL	$U_{\text{rel}}=12\%$		
70	*Total Organic Carbon Analyzer based on Conductivity Measurement	Concentration	Calibration Specification of Total Organic Carbon Analyzer based on Conductivity Measurement JJF (jing) 112	(0.5~1.5)mg/L	$U_{\text{rel}}=5\%$		
71	*Digital Saccharimeters and Digital Refractometers	brix	Verification Regulation of Digital Saccharimeters and Digital Refractometers JJG (jing) 72	10%~50%	$U_{\text{rel}}=2\%$		



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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date								
		Refractive index		nD: 1.3~1.7	U=0.0004	control function.									
V. Electricity															
1	*Withstanding Voltage Testers	DC Voltage	Verification Regulation of Withstanding Voltage Testers JJG 795	1kV~5kV	U _{rel} =0.7%										
				5kV~10kV	U _{rel} =0.5%										
				10kV~15kV	U _{rel} =0.3%										
		AC Voltage		ACV: 1kV~5kV, (50Hz)	U _{rel} =1.0%										
				5kV~10kV, (50Hz)	U _{rel} =0.7%										
				10kV~15kV, (50Hz)	U _{rel} =0.5%										
		DC Current		0.2mA~10mA	U _{rel} =0.5%										
				10mA~400mA	U _{rel} =0.3%										
		AC Current		0.2mA~10mA, (50Hz)	U _{rel} =0.6%										
				10mA~400mA, (50Hz)	U _{rel} =0.4%										
		Time		10s~30s	U _{rel} =0.6%										
				30s~999s	U _{rel} =0.3%										
2	*Megohmmeter	Resistance	Verification Regulation of Megohmmeter JJG 622	100k Ω ~10M Ω	U _{rel} =0.24%										
				10M Ω ~100M Ω	U _{rel} =0.58%										
				100M Ω ~1G Ω	U _{rel} =1.2%										
				1G Ω ~10G Ω	U _{rel} =2.4%										



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
		DC Voltage		10G Ω ~ 100G Ω	$U_{rel}=5.8\%$		
				0.1kV ~ 2kV	$U_{rel}=1.2\%$		
				2kV ~ 5kV	$U_{rel}=1.4\%$		
3	*Earth-Continuity Testers	AC Resistance	Verification Regulation of Earth-Continuity Testers JJG 984	10m Ω ~ 1000m Ω , (50Hz)	$U_{rel}=0.6\%$		
		AC Current		1A ~ 60A, (50Hz)	$U_{rel}=0.6\%$		
4	*Earth Resistance Meters	Resistance	Verification Regulation of Earth Resistance Meters JJG 366	0.1 Ω ~ 1 Ω	$U_{rel}=0.6\%$		
				1 Ω ~ 10000 Ω	$U_{rel}=0.2\%$		
5	*Stopwatches	Time	Verification Regulation of Stopwatches JJG 237	Mechanical stopwatches: 1s ~ 3600s	$U=0.1s$		
				Electronic Stopwatch: 1s ~ 3600s	$U=0.02s$		
6	*Electronic time relay	Time	Calibration Specification for Electronic time relay JJF 1282	1s ~ 100s	$U=0.1s$		
				100s ~ 1000s	$U=0.4s$		
				1000s ~ 3600s	$U_{rel}=0.6\%$		
7	*Wrist Strap and Footwear Tester	Resistance	Calibration Specification of Wrist Strap and Footwear Tester JJF(DZ) 31502	10k Ω ~ 10M Ω	$U_{rel}=1.6\%$		
				10M Ω ~ 50M Ω	$U_{rel}=2.0\%$		
8	*Multimeters	DC Voltage	Calibration Specification for Multimeters JJF 1587	10mV ~ 1000V	$U_{rel}=0.03\%$	Accredited only for standard source method	
		DC Current		100 μ A ~ 20A	$U_{rel}=0.06\%$		
		AC Current		1mA ~ 20A, (50Hz、60Hz、1kHz)	$U_{rel}=0.1\%$		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (<i>k</i> =2)	Note	Effective Date
		AC Voltage		20mV~1000V, (50Hz、60Hz、1kHz)	<i>U</i> _{rel} =0.08%		
		Resistance		20 Ω ~2M Ω	<i>U</i> _{rel} =0.06%		
				2 Ω ~100M Ω	<i>U</i> _{rel} =0.24%		
9	*Amperemeters,V oltmeters	DC Voltage	Verification Regulation of Amperemeters,Voltmeters,W attmeters and Ohmmeters JJG 124	10mV~1000V	<i>U</i> _{rel} =0.1%	Accredited only for standard source method	
		AC Voltage		20mV~1000V, (50Hz、60Hz、1kHz)	<i>U</i> _{rel} =0.1%		
		DC Current		100 μ A~20A	<i>U</i> _{rel} =0.1%		
		AC Current		1mA~20A, (50Hz、 60Hz、1kHz)	<i>U</i> _{rel} =0.12%		
10	*Electronic Insulation Resistance Meters	Resistance	Verification Regulation of Electronic Insulation Resistance Meters JJG 1005	100 Ω ~10M Ω	<i>U</i> _{rel} =0.24%		
				10M Ω ~100M Ω	<i>U</i> _{rel} =0.58%		
				100M Ω ~1G Ω	<i>U</i> _{rel} =1.2%		
				1G Ω ~10G Ω	<i>U</i> _{rel} =2.4%		
				10G Ω ~100G Ω	<i>U</i> _{rel} =5.8%		
		DC Voltage		0.1kV~2kV	<i>U</i> _{rel} =1.2%		
				2kV~5kV	<i>U</i> _{rel} =1.4%		
VI. Medical specialized measuring instruments							
1	*Calibration Specification for Automatic Chemistry Analyzers	Absorbance	Calibration Specification for Automatic Chemistry Analyzers JJF 1720	0.5~1.0	<i>U</i> =0.004		
		Concentration		ALT:(22~101) U/L	<i>U</i> _{rel} =19%		
				GLU:(6.67~12.82) mmol/L	<i>U</i> _{rel} =3.9%		

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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
2	*Semiautomatic Clinical Chemistry Analyzers	Absorbance	Verification Regulation of Semiautomatic Clinical Chemistry Analyzers JJG 464	0.5~1.0	$U=0.007$	Accredient Only for Subsequent Verification	
3	*ELISA Analytical Instruments	Wavelength	Verification Regulation of ELISA Analytical Instruments JJG 861	(360~700)nm	$U=1.4\text{nm}$		
		absorbance		0.2~1.5	$U=0.006$		
4	*Urine Analyzers	relative density	Calibration Specification of Urine Analyzers JJF 1129	0.990~1.030	$U=0.006$		
		pH		5.0~8.0	$U_{\text{rel}}=4.2\%$		
		GLU concentration		(0.1~56)mmol/L	$U_{\text{rel}}=3.2\%$		
		PRO concentration		(0.1~3.0)g/L	$U_{\text{rel}}=6.2\%$		
5	*Blood Cell Analyzers	Red blood cell concentration	Verification Regulation of Blood Cell Analyzers JJG 714	$(2\sim8)\times 10^{12}$ 个/L	$U_{\text{rel}}=2.0\%$		
		White blood cell concentration		$(2\sim20)\times 10^9$ 个/L	$U_{\text{rel}}=2.6\%$		
		Platelet concentration		$(10\sim400)\times 10^9$ 个/L	$U_{\text{rel}}=3.0\%$		
		Hemoglobin concentration		(50~200)g/L	$U_{\text{rel}}=2.0\%$		
6	*Medical Suction Equipment	Pressure	Calibration Specification for Medical Suction Equipment JJF 1810	(-95~0)kPa	$U=1\text{kPa}$		
7	*Ventilators	tidal volume	Calibration Specification for Ventilators JJF 1234	(50~1000)mL	$U_{\text{rel}}=1.4\%$		
		respiratory rate		$(10\sim40)\text{ min}^{-1}$	$U_{\text{rel}}=2\%$		



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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		pressure		(0.2~3.0)kPa	U=0.64%FS		
		Inspiratory oxygen concentration		(21~100) %	U _{rel} =0.7%		
8	*Cardiac Defibrillators	energy	Calibration Specification for Cardiac Defibrillators JJF 1149	(0~40) J	U=2.5J		
				(40~360) J	U _{rel} =5.9%		
		pulse frequency		(30~100) min ⁻¹	U=1.8min ⁻¹		
				(100~300) min ⁻¹	U _{rel} =2.1%		
		pulse width		(20~25) ms	U=0.7ms		
				(25~50) ms	U _{rel} =2.5%		
		Pulse current amplitude		(20~100) mA	U=2.4mA		
				(100~200) mA	U _{rel} =2.4%		
		heart rate		(30~200) min ⁻¹	U _{rel} =1.6%		
		ECG signal voltage		(0.1~4) mV	U _{rel} =1.6%		
		scanning speed		25mm/s	U _{rel} =1.0%		
		Amplitude frequency characteristic		(1~25)Hz, 1mV	U _{rel} =1.6%		
9	*Buoy Type Oxygen Inhalers	Flow	Verification Regulation of Buoy Type Oxygen Inhalers JJG 913	(1~15)L/min	U=0.4L/min		
		Pressure		(0~25)MPa	U=0.2MPa		
10	Plate Electrophoresis	voltage	Calibration Specification for Plate Electrophoresis	(0.1~1000)V	U _{rel} =1.3%		



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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
	Apparatus	resistance	Apparatus JJF 1654	(0.1~2)A	$U_{rel}=2.0\%$		
11	*Electrolyte Analyzers	Concentration	Verification Regulation of Electrolyte Analyzers JJG 1051	K ⁺ : (1.9~7.0)mmol/L	$U_{rel}=2.7\%$		
				Na ⁺ : (120~160) mmol/L	$U_{rel}=2.6\%$		
				Cl ⁻ : (96~130) mmol/L	$U_{rel}=3.1\%$		
				iCa ²⁺ : (0.8~1.4)mmol/L	$U_{rel}=3.2\%$		
				Li ⁺ : (0.5~1.5) mmol/L	$U_{rel}=3.3\%$		



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Name: Zheng Metrology & Test (Beijing) Co., Ltd.

Address: Room 511, Building 6, Yard 26, Yongwang West Road, Daxing Biomedical Industry Base, Zhongguancun Science Park, Daxing District, Beijing, China

Registration No. CNAS L13124

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2024-12-27 Expiry Date: 2026-02-17

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
Not grouped						
1	Vertical steam sterilizers	1	Temperature control test	Vertical steam sterilizers YY/T1007-2018 6.10.1	Don't for Liquid load	2024-03-25
		2	Pressure controller test	Vertical steam sterilizers YY/T1007-2018 6.10.2		2024-03-25
		3	Sealing performance test	Vertical steam sterilizers YY/T1007-2018 6.11		2024-03-25
		4	Sterilization effect test	Vertical steam sterilizers YY/T1007-2018 6.13	Don't for Sterilization effect test of Liquid	2024-03-25
		5	The noise test	Vertical steam sterilizers YY/T1007-2018 6.15		2024-03-25
2	Medical carbon dioxide	1	Temperature display and control	Medical carbon dioxide incubator YY1621-2018 5.2		2024-03-25



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
	incubator		performance			
		2	Carbon dioxide concentration display and control performance	Medical carbon dioxide incubator YY1621-2018 5.3		2024-03-25
		3	Relative humidity control performance	Medical carbon dioxide incubator YY1621-2018 5.4		2024-03-25
		4	noise	Medical carbon dioxide incubator YY1621-2018 5.5		2024-03-25
		5	Opening recovery time	Medical carbon dioxide incubator YY1621-2018 5.7		2024-03-25
		6	Heat preservation performance	Medical carbon dioxide incubator YY1621-2018 5.8		2024-03-25
3	Medical centrifuge	1	Relative deviation of speed	Medical centrifuge YY/T0657-2017 6.2		2024-03-25
		2	Speed stability accuracy	Medical centrifuge YY/T0657-2017 6.3		2024-03-25
		3	The machine noise	Medical centrifuge YY/T0657-2017 6.4		2024-03-25
		4	The amplitude	Medical centrifuge YY/T0657-2017 6.5		2024-03-25
		5	The temperature rise of the test solution	Medical centrifuge YY/T0657-2017 6.6		2024-03-25
		6	Timing relative deviation	Medical centrifuge YY/T0657-2017 6.7		2024-03-25
		7	Lifting speed time	Medical centrifuge YY/T0657-2017 6.8		2024-03-25
4	medical class I biological safety cabinets	1	Wind speed display	Guide for the check of medical class I biological safety cabinets YY/T1540-2017 5.4		2024-03-25



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		2	Hepa filter integrity	Guide for the check of medical class I biological safety cabinets YY/T1540-2017 5.5		2024-03-25
		3	noise	Guide for the check of medical class I biological safety cabinets YY/T1540-2017 5.6		2024-03-25
		4	Intensity of illumination	Guide for the check of medical class I biological safety cabinets YY/T1540-2017 5.7		2024-03-25
		5	Downflow velocity	Guide for the check of medical class I biological safety cabinets YY/T1540-2017 5.8		2024-03-25
		6	Inflow velocity	Guide for the check of medical class I biological safety cabinets YY/T1540-2017 5.9		2024-03-25
		7	Air flow pattern	Guide for the check of medical class I biological safety cabinets YY/T1540-2017 5.10		2024-03-25
		8	Uv lamp	Guide for the check of medical class I biological safety cabinets YY/T1540-2017 5.11		2024-03-25
5	Medical clean bench	1	Hepa filter integrity	Medical clean bench YY/T1539-2017 6.4.1		2024-03-25
		2	noise	Medical clean bench YY/T1539-2017 6.4.2		2024-03-25
		3	Intensity of illumination	Medical clean bench YY/T1539-2017 6.4.3		2024-03-25
		4	vibration	Medical clean bench YY/T1539-2017 6.4.4		2024-03-25
		5	The airflow velocity	Medical clean bench YY/T1539-2017 6.4.6		2024-03-25
		6	Air flow pattern	Medical clean bench YY/T1539-2017 6.4.7		2024-03-25
		7	cleanliness	Medical clean bench YY/T1539-2017 6.4.8		2024-03-25
		8	Uv lamp	Medical clean bench YY/T1539-2017 6.4.11		2024-03-25



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		9	Sedimentated bacteria	Medical clean bench YY/T1539-2017 6.4.5		2024-03-25
6	Guide for the check of medical class II biological safety cabinets	1	filter integrity	Guide for the check of medical class II biological safety cabinets YY 0569-2011 6.3.2		2024-03-25
		2	Inflow air	Guide for the check of medical class II biological safety cabinets YY 0569-2011 6.3.8		2024-03-25
		3	Downflow air	Guide for the check of medical class II biological safety cabinets YY 0569-2011 6.3.7		2024-03-25
		4	noise	Guide for the check of medical class II biological safety cabinets YY 0569-2011 6.3.3		2024-03-25
		5	Intensity of illumination	Guide for the check of medical class II biological safety cabinets YY 0569-2011 6.3.4		2024-03-25
		6	Airflow smoke mode	Guide for the check of medical class II biological safety cabinets YY 0569-2011 6.3.9		2024-03-25
		7	appearance	Guide for the check of medical class II biological safety cabinets YY 0569-2011 6.1		2024-03-25
		8	vibration	Guide for the check of medical class II biological safety cabinets YY 0569-2011 6.3.5		2024-03-25
		9	Uv lamp	Guide for the check of medical class II biological safety cabinets YY 0569-2011 6.3.14		2024-03-25
7	Clean bench	1	Sedimentated bacteria	Clean bench JG/T 292-2010 7.4.4.7		2024-03-25
		2	Wind speed	Clean bench JG/T 292-2010 7.4.4.3		2024-03-25
		3	filter integrity	Clean bench JG/T 292-2010 7.4.4.1		2024-03-25
		4	air cleanliness	Clean bench JG/T 292-2010 7.4.4.6		2024-03-25



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		5	noise	Clean bench JG/T 292-2010 7.4.4.8		2024-03-25
		6	Intensity of illumination	Clean bench JG/T 292-2010 7.4.4.9		2024-03-25
		7	flow pattern	Clean bench JG/T 292-2010 7.4.4.11		2024-03-25
		8	appearance	Clean bench JG/T 292-2010 7.1		2024-03-25
		9	vibration	Clean bench JG/T 292-2010 7.4.4.10		2024-03-25
8	clean room	1	Settlement of bacteria	Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.5		2024-03-25
				Architectural technical code for hospital clean operating department GB 50333-2013 13.3.18		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 E.8.3		2024-03-25
				Test method for settling microbe in clean room (area) of pharmaceutical industry GB/T 16294-2010		2024-03-25
		2	Air volume	Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.1		2024-03-25
				Architectural technical code for hospital clean operating department GB 50333-2013 13.3.7		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 E.1		2024-03-25
		3	Wind speed	Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.1		2024-03-25
				Architectural technical code for hospital clean operating department GB 50333-2013 13.3.6; 13.3.7		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 E.1		2024-03-25



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		4	Planktonic bacteria	Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.5		2024-03-25
				Architectural technical code for hospital clean operating department GB 50333-2013 13.3.18		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 E.8.4		2024-03-25
				Test method for airborne microbe in clean room (area) of pharmaceutical industry GB/T 16293-2010		2024-03-25
		5	filter integrity	Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.3		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 D		2024-03-25
		6	air cleanliness	Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.4		2024-03-25
				Architectural technical code for hospital clean operating department GB 50333-2013 13.3.11		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 E.4		2024-03-25
				Test method for airborne particles in clean room (area) of pharmaceutical industry GB/T 16292-2010		2024-03-25
		7	Static pressure difference	Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.2		2024-03-25
				Architectural technical code for hospital clean operating department GB 50333-2013 13.3.10		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 E.2		2024-03-25
		8	temperature	Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.6		2024-03-25
				Architectural technical code for hospital clean operating department GB 50333-2013 13.3.12		2024-03-25



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Code for construction and acceptance of cleanroom GB 50591-2010 E.5		2024-03-25
		9	Relative humidity control performance	Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.6		2024-03-25
				Architectural technical code for hospital clean operating department GB 50333-2013 13.3.12		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 E.5		2024-03-25
		10	noise	Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.8		2024-03-25
				Architectural technical code for hospital clean operating department GB 50333-2013 13.3.13		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 E.6		2024-03-25
		11	Intensity of illumination	Architectural technical code for hospital clean operating department GB 50333-2013 13.3.4		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 E.7		2024-03-25
		12	clean-down capability	Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.9		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 E.11		2024-03-25
		13	airflow pattern	Code for construction and acceptance of cleanroom GB 50591-2010 E.12		2024-03-25
				Code of acceptance for construction quality of ventilation and air conditioning works GB 50243-2016 D.7		2024-03-25
		14	Tightness test	Architectural technical code for hospital clean operating department GB 50333-2013 13.3.9		2024-03-25
		15	Density of surface contaminated	Code for construction and acceptance of cleanroom GB 50591-2010 E.8.5		2024-03-25



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
			bacterial			
		16	air change rate	Architectural technical code for hospital clean operating department GB 50333-2013 13.3.7		2024-03-25
				Code for construction and acceptance of cleanroom GB 50591-2010 E.1		2024-03-25
		17	UV lamp	Technical specification for disinfection of medical institutions WS/T 367-2012 A.3.1.1.1		2024-03-25
		18	Biological detection of ultraviolet disinfection effect	Technical specification for disinfection of medical institutions WS/T 367-2012 A.3.2		2024-03-25
				Architectural technical code for hospital clean operating department GB 50333-2013 13.3.18		2024-03-25
9	Clean ambient air, object surface sampling and inspection	1	Air Microbial Pollution Inspection	Hygienic standard for disinfection in hospitals GB 15982-2012 A.2		2024-03-25
		2	Microbial contamination inspection on the surface of objects	Hygienic standard for disinfection in hospitals GB 15982-2012 A.3		2024-03-25
		3	Medical staff hand hygiene check	Hygienic standard for disinfection in hospitals GB 15982-2012 A.4		2024-03-25
		4	UV lamp inspection	Hygienic standard for disinfection in hospitals GB 15982-2012 A.8		2024-03-25
10	Animal Rooms and Environmental Facilities	1	Settlement of bacteria	Laboratory Animal Environment and Facilities GB 14925-2023 Appendix F		2024-11-27
		2	Air speed	Laboratory Animal Environment and Facilities GB 14925-2023 Appendix B		2024-11-27
		3	air cleanliness	Laboratory Animal Environment and Facilities GB 14925-2023 Appendix E		2024-11-27
		4	Static pressure difference	Laboratory Animal Environment and Facilities GB 14925-2023 Appendix D		2024-11-27



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		5	temperature	Laboratory Animal Environment and Facilities GB 14925-2023 Appendix A		2024-11-27
		6	Relative humidity control performance	Laboratory Animal Environment and Facilities GB 14925-2023 Appendix A		2024-11-27
		7	noise	Laboratory Animal Environment and Facilities GB 14925-2023 Appendix G		2024-11-27
		8	Intensity of illumination	Laboratory Animal Environment and Facilities GB 14925-2023 Appendix H		2024-11-27
		9	air change rate	Laboratory Animal Environment and Facilities GB 14925-2023 Appendix C		2024-11-27
11	Pass box	1	appearance	Pass box JGT 382-2012 7.3		2024-03-25
		2	Wind speed at the center of the nozzle	Pass box JGT 382-2012 7.4.1		2024-03-25
		3	air changes	Pass box JGT 382-2012 7.4.2		2024-03-25
		4	air cleanliness	Pass box JGT 382-2012 7.4.3		2024-03-25
		5	noise	Pass box JGT 382-2012 7.4.6		2024-03-25
12	Aseptic isolators	1	appearance	Aseptic isolators JB/T 20175-2017 6.2		2024-03-25
		2	filter integrity	Aseptic isolators JB/T 20175-2017 6.3.1		2024-03-25
				High efficiency air filter GB/T 13554-2020 Appendix C		2024-03-25
		3	Intensity of illumination	Aseptic isolators JB/T 20175-2017 6.3.4		2024-03-25
		4	Airborne particles	Aseptic isolators JB/T 20175-2017 6.3.9/6.3.10		2024-03-25



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Test method for airborne particles in clean room (area) of pharmaceutical industry GB/T 16292-2010		2024-03-25
		5	Sedimentated bacteria	Aseptic isolators JB/T 20175-2017 6.3.9/6.3.10		2024-03-25
				Test method for settling microbe in clean room (area) of pharmaceutical industry GB/T 16294-2010		2024-03-25
		6	Planktonic bacteria	Aseptic isolators JB/T 20175-2017 6.3.9/6.3.10		2024-03-25
				Test method for airborne microbe in clean room (area) of pharmaceutical industry GB/T 16293-2010		2024-03-25
		7	Sterilization effect	Aseptic isolators JB/T 20175-2017 6.3.11		2024-03-25
13	fume hood	1	appearance	fume hood JG/T 222-2007 5.3.1		2024-03-25
		2	face velocity	fume hood JG/T 222-2007 6.4		2024-03-25
				Fume hood JB /T 6412-1999 7.2		2024-03-25



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