



北京朗搏校准检测有限公司

BeiJing Lonbo Calibration and Testing Co.,LTD

校准证书

Calibration Certificate

证书编号: 3XJ20700492-0001
Cer.No.

委托单位:
Customer

北京安定医院

委托单位地址:
Customer Addr.

北京市西城区安康胡同5号

仪器名称:
Description

超低温冰箱

型号规格:
Model/Type

ULT2186-4-V43

制造厂商:
Manufacturer

Thermo

机身编号:
Serial No.

0126782201081028

管理编号:
Asset No.

/

校准人:
Calibrated by

邢国文

校准日期:
Cal.Date

2020-11-12

核验人:
Inspected by

田利得

签发人:
Approved by

赵虎林

印章:
Chop



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校准说明

Directions of Calibration

证书编号: 3XJ20700492-0001

Cer.No.

1. 本实验室符合 ISO/IEC 17025:2017 《检测和校准实验室能力的通用要求》。

Our Lab conforms to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Lab,

2. 本实验室所出具的数据均可溯源到国家计量基准和国际单位制 (SI)。

All data issued by this laboratory are traceable to national primary standards and International System of Units(SI).

3. 证书未经本实验室书面批准, 不得部分复制。

The certificates must not be partially duplicated except with, prior written approval from the issuing laboratory.

4. 本次测量结果仅与被测件有关。

The measurement results are only related to the Unit Under Test.

5. 证书内页中 "P" 代表 "Pass", "F" 代表 "Fail", "N/A" 代表 "Not Applicable".

In the data sheet, "P" represents "Pass" and "F" represents "Fail" and "N/A" represents "Not Applicable".

6. 环境条件 (Environmental condition during the calibration):

温度 (Temperature): 21 (°C)

相对湿度 (Relative Humidity): 45 (%)

7. 校准地点 (Place of the calibration):

北京安定医院实验室

8. 本次校准的技术依据 (Reference documents for the calibration):

参照 JJF 1101-2019 环境试验设备温度、湿度参数校准规范 Refer to G. S. for the Equipment of the Environmental Testing for Temperature and Humidity

9. 备注 (Comments):

10. 本次校准所使用的主要测量标准 (Main measurement standards used during the calibration):

标准名称 (Description)	出厂编号 (Serial No.)	证书编号 (Certificate No.)	标准有效期 (Due Date)
数据采集器	US37032685	RA19S-AF889089	2020-12-11
标准铂电阻	A01~A65	2SJ19700534-0004	2020-11-28

结论 (Conclusion): 所校准项目合格 (Passed at Calibration Items)

建议校准周期 (Cal.Period): 1年/Year

校准结果(Calibration Results):

1、温度校准结果(Calibration Results of Temperature)

1.1、测量点布置图(Measurement Point Graph)



1.2、测量条件(Measurement Conditions)

单位(Units): °C
 标称值(Nominal): -80.0
 设定值(Setting): -80.0
 示值(Indication): -80.0

1.3、各点测量平均值(Average value of measurement at each point)

测量点 (Measuring point)	1 (°C)	2 (°C)	3 (°C)	4 (°C)	5 (°C)
测量值 (Measured value)	-80.57	-80.56	-80.56	-80.56	-81.02
测量点 (Measuring point)	6 (°C)	7 (°C)	8 (°C)	9 (°C)	/
测量值 (Measured value)	-81.05	-81.06	-81.09	-81.03	/

1.4、校准结果(Calibration results)

校准项目 (Calibration Items)	测量值 (Measured Value)	允许范围 (Limit)	结论 (Pass/Fail)
	(°C)	(°C)	(P/F)
温度上偏差(ΔT_{max}):	-0.56	± 2	P
温度下偏差(ΔT_{min}):	-1.29	± 2	P
温度均匀度(ΔT_u):	0.66	≤ 2	P
温度波动度(ΔT_f):	± 0.25	± 0.5	P

校准结果(Calibration Results):

附(Appendix):

关于测量结果不确定度的说明

Directions of measurement uncertainty in the calibration

1、依据: JJF 1059.1-2012 测量不确定度评定与表示

Reference document: JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Mearsurement

2、本次测量结果的扩展不确定度

The mearsurement expanded uncertainties of the calibration

2.1、温度(Temperature):

$U = 0.30^{\circ}\text{C}$ ($k=2$)

-----以下空白(hereafter no data)-----