



6

校准证书

Calibration Certificate



证书编号: 3XJ21700538-0006
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

ULT2186-6-V49

制造厂商:
Manufacturer

Thermo

机身编号:
Serial No.

0129906101110617

管理编号:
Asset No.

/

接收日期:
Acce. Date

2021-11-09

校准日期:
Cal. Date

2021-11-09

校准人:
Calibrated by

邢国文

签发日期:
App. Date

2021-11-12

核验人:
Inspected by

赵会卿

签发人:
Approved by

赵虎林

印章:
Chop



校准说明

Directions of Calibration



证书编号: 3XJ21700538-0006

Certificate No.

- 1. 本实验室质量管理体系符合ISO/IEC 17025:2017《检测和校准实验室能力的通用要求》的要求。**
The Quality management system of Our Lab meets the ISO/IEC 17025:2017 《General Requirements for the Competence of Testing and Calibration Lab》.
- 2. 本证书未经本实验室书面授权, 不得部分复制。**
The certificate shall not be partly reproduced without written approval of the laboratory.
- 3. 本次校准结果仅与被校件有关。**
The calibration results are only related to the items calibrated.
- 4. 证书内页中“P”、“合格”代表“测量结果在允许范围内”, “F”、“不合格”代表“测量结果不在允许范围内”, “N/A”代表“不适用”; 本证书报告的判定规则和结论仅供参考, 使用人员应结合实际测量的要求合理使用。**
“P” and “Pass” in this certificate stand for “Low Limit \leq the measured value \leq High Limit”, “F” and “Fail” Stand for “the measured value $<$ Low Limit or the measured value $>$ High Limit”, “N/A” stand for “Not Applicable”; The judgment rules and conclusions of this certificate are for reference only, User should use them reasonably according to the actual measurement requirements.
- 5. 环境条件 (Environmental condition):**
温度(Temperature): 22.3 (°C) 相对湿度(Relative Humidity): 46 (%)
- 6. 校准地点 (The place of the calibration):**
北京安定医院样本库
- 7. 本次校准的技术依据 (Reference documents for the calibration):**
JJF 1101-2019 环境试验设备温度、湿度参数校准规范
- 8. 本次校准的CNAS认可能力范围及说明 (CNAS accredited scopes and comments).** 详细认可范围请查看CNAS网站中注册号为L9885的证书附件。(Please see the attachment of certificate No.L9885 at CNAS website).

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

名称 (Description)	出厂编号 (Serial No.)	证书编号 (Certificate No.)	有效期至 (Due Date)	溯源单位 (Traceability to)	技术指标 (Specification)
数据采集器	US37003454	1ZJ21700015-0001	2022-04-27	北京朗搏	U=0.02°C(k=2)
超低温铂电阻	cd01~cd15	1ZJ21700015-0002	2022-04-27	北京朗搏校准检测有限公司	A级

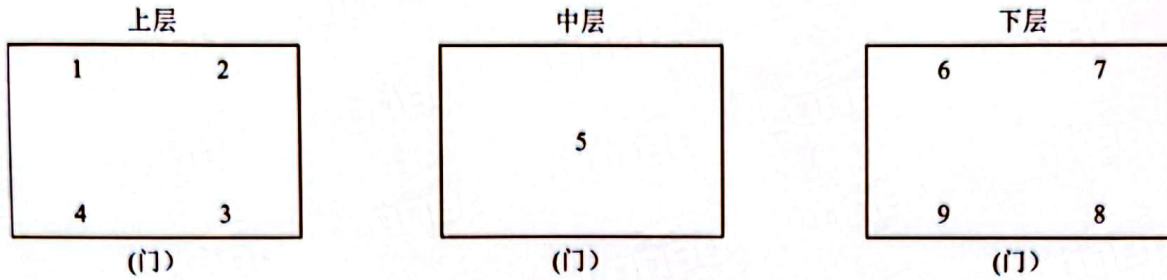
结论(Conclusion): 所校准项目合格(Passed at Calibration Items)



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)

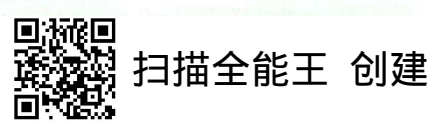
单位(Units): ℃
 标称值(Nominal): -80.0
 设定值(Setting): -80.0
 示值(Indication): -80.0

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

测量点 (Measuring point)	1 (℃)	2 (℃)	3 (℃)	4 (℃)	5 (℃)
测量值 (Measured value)	-79.65	-79.62	-79.69	-79.68	-80.57
测量点 (Measuring point)	6 (℃)	7 (℃)	8 (℃)	9 (℃)	/
测量值 (Measured value)	-80.50	-80.47	-80.57	-80.51	/

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)
	(℃)	(℃)	(P/F)
温度上偏差(ΔTmax):	0.46	±2	P
温度下偏差(ΔTmin):	-0.82	±2	P
温度均匀度(ΔTu):	1.13	≤2	P
温度波动度(ΔTf):	±0.30	±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 Measurement

2、本次测量结果的扩展不确定度

The measurement 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)-----

