

# 校准证书

## CALIBRATION CERTIFICATE

证书编号:



Certificate No.

J202107020134A-0004

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of

委托方

中南大学湘雅三医院

Client

联络信息

长沙市岳麓区桐梓坡路

Contact Inf.

仪器名称

医用冷藏箱

Description

型号/规格

HYC-940

制造厂

Haier

Model/Type

Manufacturer

出厂编号

BE03LR00N00QJL7GJV  
DT

管理号

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Serial No.

Asset No.

接收日期

2021年07月14日

校准日期

2021年07月14日

Receipt Date

Y M D

Cal. Date

Y M D

发布日期

2021年07月14日

Issued Date

Y M D

批准

Approved by

林春江 (副总监)

审核

Inspected by

叶超男

校准

Calibrated by

黄蛟

证书专用章

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扫一扫验真伪

## 校准说明 DIRECTIONS OF CALIBRATION

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- 1.本实验室的质量管理体系符合ISO/IEC 17025:2017标准的要求。  
(The quality system is in accordance with ISO/IEC 17025:2017.)
- 2.本结果仅对本次校准样品有效。未经实验室批准,不得部分复制。如有疑问请在15个工作日内反馈。  
(The result is only valid for the calibrated sample.The certificate shall not be reproduced except in full,without the written approval of our laboratroy .please feedback to us within 15 days if you have any question.)
3. 本证书编号具有唯一性, 后缀若带有“-Gx”的证书为替换证书, 自发出后原证书即刻作废。  
(Each certificate has a unique number. The suffix of "-Gx" will be added to the number as a replacement of the old version. The original certificate will be officially invalid once the new certificate number is issued.)
- 4.证书中最大允许误差、判定结果仅供参考, 其中“P”代表“合格”, “F”代表“不合格”, “N/A”代表“不适用”。使用人员应结合实际测量需求, 评估测量不确定度对符合性评定的影响。(MPE & judgement result in the datasheet is only for reference , "P" is "Pass" , "F" is "Fail" and "N/A" is "Not Applicable".Whereas users should evaluate the effects of MU of calibration results on conformance assessment by actual measurement.)
- 5.本次校准的技术依据及CNAS认可范围, 超出范围的内容未被认可。详细认可范围请查看CNAS网站中注册编号为L0446的证书附件。(Reference document and accredited scope by CNAS for calibration, beyond which isn't accredited. Please see the attachment of certificate No.L0446 on CNAS website for details.)  
JJF1101-2019环境试验设备温度、湿度参数校准规范(C.S. of Environmental Testing Equipment for Temperature and Humidity Parameters) 湿度: (5~99)%RH 温度: (-80~500)℃

### 6. 本次校准使用的主要测量标准(Main Standards of Measurement Used in the Calibration.):

| 名称                        | 编号         | 证书号/有效期                              | 溯源机构                      | 技术特征                                                                                           |
|---------------------------|------------|--------------------------------------|---------------------------|------------------------------------------------------------------------------------------------|
| Description               | Serial No. | Certificate No./<br>Due Date         | Traceability<br>Institute | Technique Character                                                                            |
| 多通道高精度温度、湿度数据<br>采集记录分析系统 | 21036902   | J202104166531-<br>0001<br>2022-04-17 | 广州广电计量<br>检测股份有限<br>公司    | MPE: 温度: $\pm 0.03\%FS(A$<br>级铂电阻), $\pm 0.1\%$ (I级热电<br>偶);湿度: $\pm 1.5\%RH/\pm 0.2^{\circ}C$ |

### 7.校准地点、环境条件(Place and environmental conditions of the calibration):

|       |         |             |      |   |                   |    |   |
|-------|---------|-------------|------|---|-------------------|----|---|
| 地点    | 客户科教楼7楼 | 温度          | 24.5 | ℃ | 相对湿度              | 58 | % |
| Place |         | Temperature |      |   | Relative Humidity |    |   |

- 8.建议复校时间间隔: 1 年, 送校单位也可按实际使用情况自主决定。  
Suggested calibration interval is 1 year or it can be altered depending on the actual usage of the user.

## 校准结果 RESULTS OF CALIBRATION

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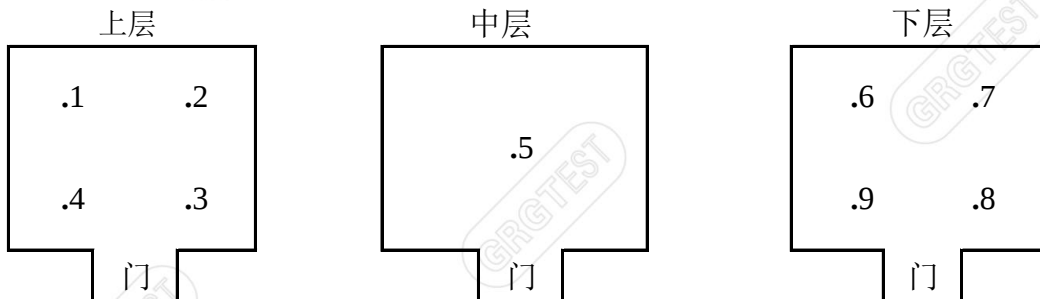
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### (一): 温度测量

#### 1 测量点布置图 (Measurement point graph):



#### 2 温度测量 (Temperature measurement):

设定值 (Setting): 4.0 °C

指示值 (Indicated): 4.7 °C

| 测量点             | 最大值  | 最小值  | 储藏温度要求                           |   |      | 结论         |
|-----------------|------|------|----------------------------------|---|------|------------|
| Measuring point | Max  | Min  | Storage temperature requirements |   |      | Conclusion |
| 温度(Temp.)       | (°C) | (°C) | (°C)                             |   |      | (P/F)      |
| 1               | 6.53 | 4.64 | 2.00                             | ~ | 8.00 | P          |
| 2               | 5.80 | 4.35 | 2.00                             | ~ | 8.00 | P          |
| 3               | 5.90 | 4.54 | 2.00                             | ~ | 8.00 | P          |
| 4               | 5.81 | 4.39 | 2.00                             | ~ | 8.00 | P          |
| 5               | 5.74 | 4.68 | 2.00                             | ~ | 8.00 | P          |
| 6               | 6.04 | 4.64 | 2.00                             | ~ | 8.00 | P          |
| 7               | 6.27 | 4.33 | 2.00                             | ~ | 8.00 | P          |
| 8               | 7.25 | 4.84 | 2.00                             | ~ | 8.00 | P          |
| 9               | 5.78 | 4.36 | 2.00                             | ~ | 8.00 | P          |

## 校准结果 RESULTS OF CALIBRATION

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(二): 控制器: 正常

The controller: Normal

备注:

Notes:

- 1 结论(Conclusion): 所校项目符合技术要求
- 2 按用户要求指定温度点校准(Specify temperature point by user);
- 3 各校准点位置与工作室内壁的距离不小于各边长的1/10;  
(The distance between the position of calibration and the inner wall isn't less than 1/10 of each side);
- 4 校准时设备处于 负载 状态。(Load of equipment: Load )
- 5 本次测量结果扩展不确定度(Expanded uncertainty of the measurement results) :  
温度(Temperature):  $U = 0.3^{\circ}\text{C}$ ,  $k=2$ ;
- 6 依据(Reference document)  
JJF 1059.1-2012 测量不确定度评定与表示  
(JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

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