



校准证书

Calibration Certificate



证书编号: 3XJ21700532-0003
Cer.No.

委托单位: 北京安定医院
Customer _____

委托单位地址: 北京市西城区安康胡同5号
Customer Addr. _____

仪器名称: 冷冻离心机
Description _____

型号规格: 3-18K
Model/Type _____

制造厂商: SIGMA
Manufacturer _____

机身编号: 146161
Serial No. _____

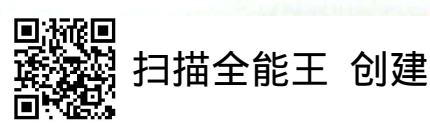
管理编号: /
Asset No. _____

接收日期: 2021-11-09 校准日期: 2021-11-09
Acce. Date _____ Cal. Date _____

校准人: 陆君杰 签发日期: 2021-11-12
Calibrated by _____ App. Date _____

核验人: 赵会卿
Inspected by _____

签发人: 赵虎林 印章: Chop
Approved by _____



校准说明

Directions of Calibration



证书编号: 3XJ21700532-0003
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(疾病样本资源库-实验室)
- 7. 本次校准的技术依据 (Reference documents for the calibration):**
JJF(浙)1117-2015 医用离心机校准规范
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)
非接触式转速计	C192469999	1ZJ21700023-0018	2022-08-16	北京朗搏	Urel=0.01%(k=2)
标准铂电阻	A01~A65	1ZJ21700015-0003	2022-04-27	北京朗搏	A级
数据采集器	US37003454	1ZJ21700015-0001	2022-04-27	北京朗搏	U=0.02°C(k=2)

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

建议校准周期 (Proposed Cal.Period): 1年/Year



校准结果(Calibration Results):

1、外观及功能检查(Appearance and Function Check)

结论
(Pass/Fail)
P

2、转速示值误差(Revolution Speed Indication Error)

标称值 (Nominal) (rpm)	标准值 (Reference) (rpm)	误差 (Error) (%)	允许误差 (Limit) (%)	结论 (Pass/Fail)	扩展不确定度 (Urel, k=2) (%)
1000	1007	-0.70	±2.5	P	0.1
2000	2007	-0.35	±2.5	P	0.1
4000	4008	-0.20	±2.5	P	0.1

3、转速稳定度(Rotate Speed Stability):

设定值 (Setting) (rpm)	稳定度 (Stability) (%)	允许误差 (Limit) (%)	结论 (Pass/Fail) (P/F)
2000	0.6	≤1.0	P

4、温度测量(Temperature Measurement)

设定值 (Setting) (°C)	标准值 (Reference) (°C)	误差 (Error) (°C)	扩展不确定度 (U, k=2) (°C)
4.00	4.09	0.09	0.30

附(Appendix):

关于测量结果不确定度的说明

(Directions of measurement uncertainty in the calibration)

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)

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