校 准 证 书
Calibration certificate

证书编号 *Certificate No.* Z20169-S212392

客户名称 *Client Name* 广西化工研究院兽药厂

地 址 *Address* 广西南宁市望州路北二里7号

仪器名称 *Description* 电导率仪

型号/规格 *Model/Type* DDS-11D

制造厂商 *Manufacturer* /

出厂编号 *Serial Number* 80180

管理编号 *Management No.* /

校准日期 *Calibration Date* 2016 年 *Year* 05 月 *Month* 04 日 *Day*

建议下次校准日期 *Due date* 2017 年 *Year* 05 月 *Month* 03 日 *Day*

发证单位(专用章) *Issued by (stamp)*

批准: *Approved by*

核验: *Inspected by* 肖岩

校准: *Calibrated by* 李毅方

地址：广东省深圳市龙岗区锦龙大道2号1栋6楼
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说　　明
DIRECTIONS

1. 本实验室出具的数据均可溯源至国家计量基准和国际单位制（SI）。
   All data issued by the laboratory are traceable to National Primary Standards and International System of Units(SI).
2. 本证书未经签章、数据涂改、或分离使用均无效。未经本公司书面批准，不得部分复制此证书。校准结果仅对受测仪器当时之情况负责。
   The Certificate is invalid when no stamp sealed on, data alteration or separate use. Without our written approval, the certification should not be partially duplicated. The calibration results are only responsible for calibration conditions of the instrument at the time.
3. 本证书具有唯一性，带有相同证书编号、按页码顺序的组成页为校准证书。公司宣传的认可信息不代表本校准证书及本实验室校准能力全部通过CNAS认可。
   The certificate is unique,and made up of pages with same certificate number and serial order.Company promotion information does not mean that the certificate and the lab calibration ability are all accredited by CNAS.
4. 对本次校准有异议，委托方应于收到校准证书之日起十五日内书面向本实验室提出。
   If there is any objection concerning the laboratory, the client should inform the issuing laboratory by the written form within 15 days from the date of the device under test return to the client.
5. 如果被校仪器用于强检范畴，本证书自动失效。
   If the instrument belong to compulsory test field，the corresponding certificate is automatiacally invalid.
6. 我司是独立的第三方计量校准机构，并对本证书的内容拥有最终解释权。
   Our company is an independent third-party calibration organization, and reserves final explanation right of the certificate contents.
7. 本次校准所依据的技术文件(Reference documents for the calibration)：
   JJG376-2007 电导率仪检定规程
8. 校准的地点及环境条件(Place and environmental condition in the calibration)：

   校准地点: Cal. Place：委托方现场

   温　　度: Temperature：21.0 ℃　　湿　　度: Relative Humidity：58 %
9. 校准所用的主要计量标准器具(Main Standards of Measurement Used in the Calibration)：

名称 Description	证书编号 Certificate No.	编号 Serial No.	有效期至 Due date
检定电导率仪专用交流电阻箱	DYQ201600613	TM9-008	2017-02-01
电导率溶液标准物质	SCMBW0623a等	TM9-009	2016-08-31

校 准 结 果
Results of Calibration

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1.外观及工作性能检查：
(Appearance & Working Performance Check) 符合(Pass)

2.电子单元示值误差（常数1.000cm^{-1}）：

仪器量程 *Range*	标准值 *Standard Val.*	示值 *Indication Val.*	示值误差 *Indication Error*	允差 *MPE*	结论
2μS/cm	0.8μS/cm	0.79μS/cm	-0.01μS/cm	±0.02μS/cm	P
2μS/cm	1.6μS/cm	1.59μs/cm	-0.01μS/cm	±0.02μS/cm	P
20μS/cm	8μS/cm	8.1μs/cm	+0.1μS/cm	±0.2μS/cm	P
20μS/cm	16μS/cm	16.1μs/cm	+0.1μS/cm	±0.2μS/cm	P
200μS/cm	80μS/cm	81μs/cm	+1μS/cm	±2μS/cm	P
200μS/cm	160μS/cm	162μs/cm	+2μS/cm	±2μS/cm	P
2mS/cm	0.8mS/cm	0.79mS/cm	-0.01mS/cm	±0.02mS/cm	P
2mS/cm	1.6mS/cm	1.59mS/cm	-0.01mS/cm	±0.02mS/cm	P
20mS/cm	8mS/cm	8.2mS/cm	+0.2mS/cm	±0.2mS/cm	P
20mS/cm	16mS/cm	16.2mS/cm	+0.2mS/cm	±0.2mS/cm	P

3.仪器示值误差：（Instrument indication error）

标准值 *Standard Val.*	示值 *Indication Val.*	示值误差 *Indication Error*	允差 *MPE*	结论
147.3μS/cm	148.6μS/cm	+1.3μS/cm	±3.0μS/cm	P
1413μS/cm	1429μS/cm	+16μS/cm	±30μS/cm	P

说明:本次测量结果的相对扩展不确定度为：
(The Relative Expanded Uncertainty of the Measurement Result is)

电计：U_{rel}=0.5% 仪器：U_{rel}=0.4% k=2

(依据JJF1059.1-2012测量不确定度评定与表示）
(According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)