



RT5产品手册

RT5 PRODUCT MANUAL

锐拓仪器

RAYTOR INSTRUMENTS

药物溶出度仪与溶出解决方案专业提供商

Dissolution Device and Solution Professional Provider



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深圳锐拓仪器 (Raytor Instruments) 位于中国智造之都深圳，是国家高新企业、ISO9001认证企业。锐拓仪器致力于药物溶出仪器与解决方案的研发、生产、销售和服务，拥有多项技术专利。

Raytor Instruments is located in Shenzhen, the capital of Intelligent Manufacturing in China. It is a national high-tech enterprise and a ISO9001 certified enterprise.

Raytor Instruments is committed to the research and development, production, sales and service of drug dissolution instruments and solutions, with a number of technical patents.

锐拓仪器旗下的溶出产品包括：流池法溶出系统、往复筒法溶出系统、普通溶出自动取样系统、扩散池自动取样系统、溶出仪机械性能验证工具箱、溶媒制备仪等，全面覆盖国内外药典中各种溶出释放度测试装置。锐拓仪器同时能够为用户提供溶出度整体解决方案。

Raytor Instruments dissolution products include: flow-through cell dissolution system, reciprocating cylinder dissolution system, ordinary dissolution automatic sampling system, diffusion cell automatic sampling system, dissolution apparatus mechanical verification toolbox, dissolution medium preparation instrument, etc., which fully cover all kinds of dissolution release test devices in Pharmacopoeia. At the same time, Raytor Instruments can provide users with the overall solution of dissolution test.

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锐拓仪器
RAYTOR INSTRUMENTS

完善的产品线

Perfect Product Line

RT7

流池法溶出系统

Flow-Through Cell Dissolution System

药典流池法



RT3

往复筒法溶出系统

Reciprocating Cylinder Dissolution System

药典往复筒法、往复支架法



RT6

普通溶出系统

General Dissolution Series

药典篮法、浆法、小杯法、浆碟法、
转筒法、浸没池法.....



RT8

药物透皮扩散系统

Transdermal Diffusion System

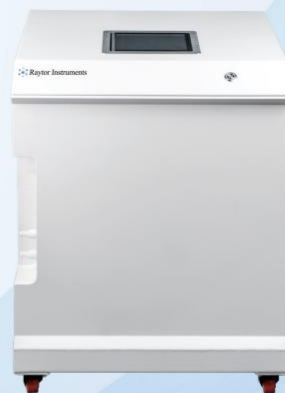
药典扩散池法

RT5

溶出介质制备脱气系统

Medium Preparation Degassing System

溶出介质的制备、脱气



RT2

溶出仪物理校准工具

Dissolution Mechanical Calibration Series

校准工作站、校准工具包

RT5 溶出介质制备脱气系统

Medium Preparation Degassing System

RT500智能脱气系统

RT500 Intelligent Degassing System



RT500智能脱气系统适用于纯水或非挥发性溶出介质的脱气处理。脱气过程采用加热、循环、抽真空三法合一，有效地提高脱气效果，节省脱气时间，进一步确保药物溶出实验结果准确、有效。

Raytor RT500 intelligent degassing system is suitable for degassing treatment of purified water or non-volatile dissolution media. In the degassing process, heating, circulation and vacuum pumping are combined to effectively improve the degassing effect, save the degassing time and further ensure the accuracy and effectiveness of the dissolution test results.

- 液晶触摸显示屏，操作系统功能齐全、使用简便。
LCD touch screen, operating system function is complete and easy to use.
- 进液/排液、脱气功能一键式操作，简单快捷。
Liquid in / out and degassing function can be operated by one key, it is simple and fast.
- 高精度液位监控和流量控制系统，可控制进液量、排液量，实时监控液体体积。
High precision liquid level monitoring and flow control system, can control the amount of liquid entering and discharging, and monitor the liquid volume in real time.
- 系统具有预约功能，可提前处理溶出介质，提高工作效率。
The system has reservation function, which can deal with the dissolution medium in advance and improve the work efficiency.
- 操作系统采用账号密码方式登录，可以设置多个用户账号。
The operating system uses account and password to log in, and multiple user accounts can be set.



RT500技术参数

RT500 Technical Parameter

项目 Items		技术参数 Technical Parameters
尺寸 Size	长×宽 Length × Width	~ 60 cm × 55 cm
	高 Height	~ 79 cm
电器参数 Electrical Parameters	电源要求 Power Supply	AV 220V±10%, 50Hz
	功率 Power	2000 w
温度 Temperature	温控范围 Temp. Control Rang	室温 ~ 45°C Room Temp. ~ 45°C
	分辨率 Resolution	0.1 °C
系统压力 System Pressure	测量范围 Measure Range	0.02 Mpa ~ 0.09 Mpa
	分辨率 Resolution	0.01 Mpa
脱气参数设定范围 Degassing Parameter Setting Range	脱气时间 Degassing Time	> 8 min
	脱气温度 Degassing Temp.	25°C ~ 45°C
	脱气体积 Degassing Volume	2 ~ 25L
	真空度 Vacuum Degree	0.02 Mpa ~ 0.04 Mpa
	脱气效果 Degassing Effect	3 ~ 5 ppm (溶氧)

售后服务与技术支持

After Sales Service & Technical Support

验证与确认

Validation and Qualification

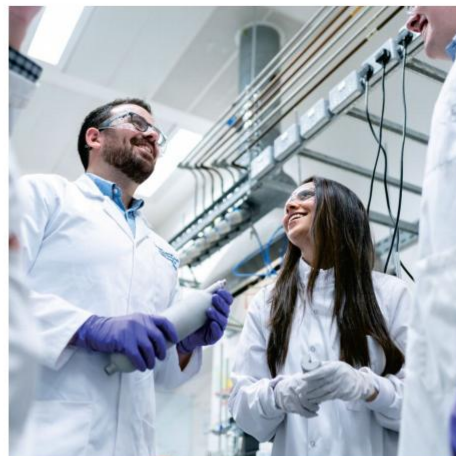
锐拓仪器能够为您的全系列溶出系统提供全面且专业的验证与确认服务。所有验证与确认服务都会附有符合法规要求的完整专业的文件报告。

Raytor Instruments can provide comprehensive and professional validation and qualification services for your dissolution systems. All verification and validation services will be accompanied by complete and professional documents meeting regulatory requirements.

我们能够提供的验证&确认服务包括且不限于：

The validation & qualification services we can provide include but are not limited to:

- 篮法、桨法 IQ/OQ/PQ
Basket Method, Paddle Method IQ/OQ/PQ
- 中国药典小杯法 IQ/OQ/PQ
ChP Mini Vessel Method IQ/OQ/PQ
- 桨碟法 IQ/OQ
Paddle over Disk Method IQ/OQ
- 转筒法 IQ/OQ
Dissolution Cylinder Method IQ/OQ
- 浸没池法 IQ/OQ
Immersion Cell Method IQ/OQ
- 流池法 IQ/OQ
Flow-Through Cell Method IQ/OQ
- 往复桶法、往复支架法 IQ/OQ
Reciprocating Cylinder and Holder IQ/OQ
- 扩散池法 IQ/OQ
Diffusion Cell Method IQ/OQ
- 计算机化系统验证
Computerized System Validation
- 溶出系统清洁验证
Dissolution System Cleaning Validation

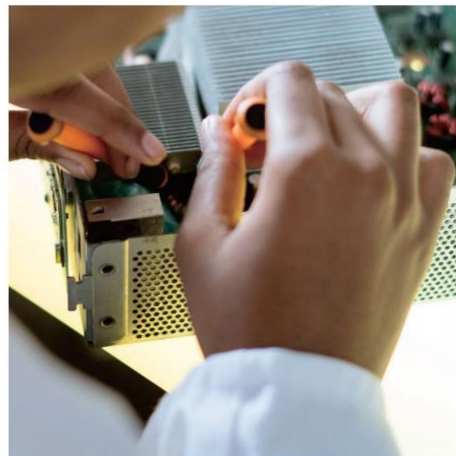


维修和预防性维护

Repair & Preventive Maintenance

锐拓仪器售后服务团队能够快速应对您的仪器维修需求。锐拓仪器提供涵盖维修，预防性维护和维修后再确认的服务，让您的仪器始终处于最佳状态。

Raytor Instruments after-sales service team can quickly respond to your instrument maintenance needs. Raytor Instruments provides services covering repair, preventive maintenance and requalification after repair, to keep your instrument at its best.



培训与交流

Training & Communication

锐拓仪器能够为您提供全系列溶出系统的使用操作培训。另外，锐拓仪器的专业技术团队能够根据您的实验需求，针对特定的技术细节进行更深层次的交流。

Raytor Instruments can provide you with a full series of training on the operation of dissolution system. In addition, the professional technical team of Raytor Instruments can conduct deeper communication for specific technical details according to your experimental needs.



应用技术支持

Application Technical Support

锐拓仪器拥有强大的应用技术实验室团队，能够承接客户的新颖溶出方法开发，例如流池法、往复筒法。并协助客户进行溶出结果异常调查。

Raytor Instrument has a strong application technology laboratory team, which can undertake the development of new dissolution methods from customers, such as flow-through cell method and reciprocating cylinder method. And assist the customer to investigate the abnormal dissolution results.

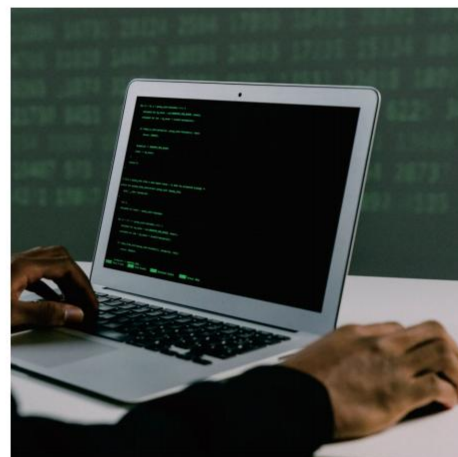


架设电子数据云系统服务器

Electronic Data Cloud System Server

通过架设电子数据云系统服务器，连接多个实验室中的全部溶出系统，实现所有溶出系统的记录、用户、方法等电子数据的统一管理和自动备份。

The electronic data cloud system server is to connect all dissolution systems in multiple laboratories to realize the unified management and automatic backup of electronic data such as records, users and methods of all dissolution systems.

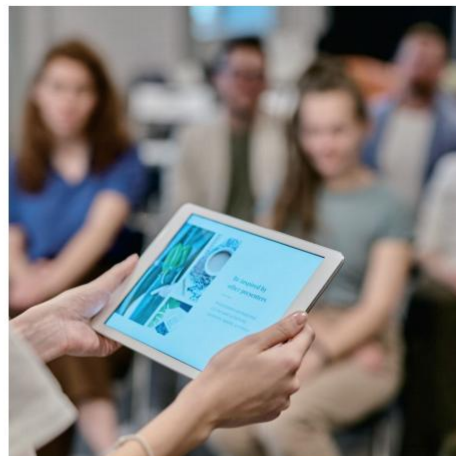


技术研讨会

Technical Seminar

锐拓仪器会在全国各种制药技术研讨会中分享最新溶出研究成果。您可以关注锐拓仪器的参会安排，在研讨会现场跟我们的技术专家进行交流。

Raytor Instruments will share the latest dissolution research results in various national pharmaceutical technology seminars. You can pay attention to the participation arrangement of Raytor and communicate with our technical experts at the seminar site.



锐拓线上大讲堂

Raytor Online Lecture Hall

锐拓仪器会定期在线上举办大讲堂，介绍最新的溶出前沿技术。您可以进入大讲堂的直播平台收看技术宣讲，并在线上与技术专家进行交流互动。

Raytor Instruments will regularly hold a lecture hall online to introduce the latest dissolution cutting-edge technology. You can enter the live broadcast platform of the auditorium to watch the technical lectures and interact with technical experts online.



微信公众号

WeChat Official Account

锐拓仪器的微信公众号会定期分享应用实验案例、公布锐拓线上大讲堂和技术研讨会的安排。您可以关注我们的公众号，以获得最新的资讯。

The official account of WeChat public of Raytor Instruments will regularly share the application experiment cases, announce the arrangement of the lecture hall and technical seminar. You can pay attention to our official account for the latest information.



本文中的信息、说明和技术参数如有变更，恕不另行通知。

The information, description and technical parameters in this document are subject to change without notice.



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