

DS 14000 (Basic) SMART

Tablet Dissolution Test Apparatus (12+2)



21 CFR
PART 11
FULLY
COMPLIANT



The new LABINDIA Dissolution Apparatus DS 14000 provide great versatility and configurability. It fulfils all requirements relating to ASTM & FDA Mechanical Calibration. The state-of-the-art Dissolution Testing with touch screen is elegant in design and user friendly with advanced features. The DS 14000 is precision engineered for USP<711> dissolution for ease of use. Allows storage of up to 200 product test run parameters.

Diagnostic functionality and validation report of the system is reliable enough for QC applications and flexible for R&D use.

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STANDARD FEATURES:

- Compliance with current USP, BP, IP
- Designed to minimize routine validation
- Motorised Lift Mechanism for Hands free and quiet operation
- Automatic stirrer 25 mm depth positioning (as per USP requirement of 25mm \pm 2 mm)
- Monoshaft Design with quick changeover of paddle and basket stirring elements of apparatus 1 and 2
- Automated Tablet drop at a single instance
- The conical shape design for Low evaporation
- Digital Temperature Sensor (DTS technology) with unique digital ID
- Chemical resistant Polycarbonate OR Glass Vessels with lids complying to USP/BP/IP
- Acrylic, good visibility water bath with Front positioned Drain Valve
- Buffer change facility up to 3 Buffers without discontinuation of dissolution test
- Validation report for Temperature, sample and Replenishing volume
- Built in USB port for printer connectivity, data backup and restore
- Laser marked and certified precision glass Vessels, Paddles and Basket for traceability
- Recovery Test facility to study 100% Drug Dissolution

7" colour high resolution Display with touch screen inter face



External vibration free flow Water Circulator



GLP COMPLIANCE

- QWERTY Keyboard for entries of Sample Name, Sample Number and Identification Number for authentication
- Built-in Real Time Clock (RTC) for date and time on display and on printout
- Factory entered CUSTOMER NAME with Instrument Serial Number on report printouts make the system foolproof
- Non-Volatile memory storage of 1000 methods with parameters

Ease in operation:

- Auto Start facility to continue the dissolution analysis in case of short power interruption (especially useful for long duration analysis of sustained release tablets)
- Reports can be obtained even after Resetting / Power off / Power failure conditions
- Built in report data storage facility
- Error indication helps user to trace the problem

Protects Editing, Avoids invalid entries:

- User interactive software for ease of operation with protection against invalid entries.

Alarms and Indications:

- Audible indication for ready state of instrument.

Wake-up Alarm:

- This unique feature automatically turns the bath heater ON at a predetermined time.



Intelligent Sampling System



Low Evaporation Disks

Additional Features (Optional)

- Sinkers, USP 5 (Transdermal Paddle Over disk), USP 6 (Transdermal Rotating Cylinder), Intrinsic dissolution apparatus (rotating and stationary), Enhancer cell, Felodipine Basket, Sampling Cannula
- Dissolution test vessel 100mL, 150mL, 250mL & 500mL with mini paddles
- Dissolution qualification tool kit for mechanical calibration according FDA
- Qualification document (IQ and OQ)

21 CFR PART 11 COMPLIANCE

- Audit Trail for all activities with search facility, report generation and printing
- 200 User ID's with alphanumeric entries of user name, password and role based privileges selection
- Multi-level roles with password protection and complexity
- User authentication is performed for each and every operation done by user
- PDF report file can be created through print
- USB Printing eliminates the need of serial port to connect with instrument
The user can take printout on any local or network printer as well
- Electronic signature functionality
- Manual Archive and Data Backup facility available
- LAN (Ethernet) connectivity for Data backup on Network shared folder



TYPICAL SPECIFICATIONS

Control	Micro Controller
Method Storage	Minimum 1000 methods with parameters
Software Compliance	21 CFR Part 11
Temperature Range	20°C to 55°C
Temperature Accuracy	up to 45°C ±0.1°C & >45°C up to 55°C ±0.2°C
Temperature Resolution	0.1°C
Temperature Sensor	DTS - Digital Temperature Sensor
Evaporation Loss	1% (at 50 RPM / 37°C / 1000mL / 24hrs)
Display	7" high resolution display with capacitive touch screen
Paddle/Basket Shaft Stirring Speed	20 to 350 RPM (20 to 250±1, 251 to 350±2)
Sampling Time Selectivity	Fixed / programmable (Varying Intervals)
Time Interval Selectivity	In steps of 1 Minute
Vessel Capacity	1000 mL
Water Bath	29 litres capacity with built-in water level sensor / front loaded drain tap for easy draining of the water bath
Maximum Number Of Intervals	50
Dissolution Process Time	1 min to 1200 hrs
Print Interface	USB / WiFi Direct enabled Printer
Data Backup Interface	USB / LAN Port
Electrical Power	110/220V AC - 50 Hz/60 Hz
Dimension (W*D*H)	115*60*70.5 cm
Weight	120 kg Approx

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A N A L Y T I C A L

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Striving to become the best individuals, we endeavour to foster the best team. Performing sensibly, we try to achieve the best efficiency. Working innovatively, we seek to make the best products. Listening patiently, we excel to offer the best service. So, no matter what you needs are, **come to us, GET THE BEST**

LABINDIA reserve the right to change specification without notice as part of its continuous programme of product development.