DS 8000 (with Piston Pump) SMART

Tablet Dissolution Test Apparatus (6+2)

21 CFR PART 11 FULLY COMPLIANT

The new LABINDIA Dissolution Apparatus DS 8000 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 8000 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.

LABINDIA ANALYTICAL

WHERE COMMITMENT IS CULTURE

STANDARD FEATURES

- Advanced, Micro-Controller based:
  User-friendly, complies with current USP, IP & BP specifications
- Moulded water bath with 6+2 (3+1 & 3+1) vessel configuration enables comparative studies
- Mono shaft design with easy changeover between Apparatus I & II eliminates routine height validation as per USP
- Paddles, Baskets and Vessels are laser marked with serial numbers for traceability
- Automated Tablet dispenser - drops 6 dosage form at single instance
- Low Evaporation Lids:
  » The conical shape low evaporation recovery lids reduces media loss during long run
  » Integrated pre-centered lids; no manual removal or positioning of lids. This ensures automatic vessel centering and precise positioning of paddle/basket with shaft without any special tool as per pharmacopeia requirements
- State-of-the-art design:
  » Easy placement and locking of vessels, the Ease-align system allows the vessels to simply slide into the place (Bionet Locking) Once placed, vessels do not float even when empty
  » Facility to monitor Vessel temp., with an external Digital Temperature Sensor

7" colour high resolution Display with touch screen interface

External vibration free flow Water Circulator.

SOFTWARE

- 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
  » Validation Software to validate RPM, Temperature, sampling volume & replenish volume
- Protects Editing, Avoids invalid entries:
  » User interactive software for ease of operation with protection against invalid entries
  » Multilevel password protection for method editing
- 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
  » Error indication helps user to trace the problem
- 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

REGULATORY COMPLIANCE

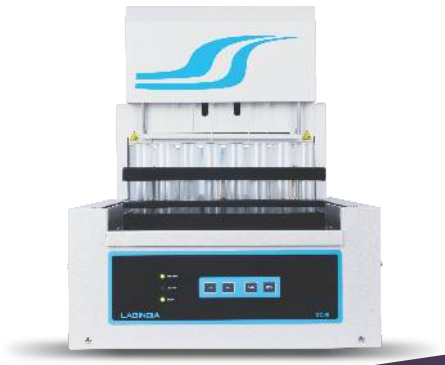
- DS 8000 Smart meets all requirements relating to validation, qualification and calibration
- Appropriate qualification documents (I.Q. / O.Q.) can be supplied with the instrument

PUMP SYSTEM - PP 08

- Piston Pump - PP 08 is Microprocessor controlled and is ideal for sample withdrawal from 6, 7, 8 channels
- The Piston Pump - PP 08 with inert ceramic rotor overcomes all absorption issues
- High flow rates of 25 ml / min can be achieved with accuracy better than ±5%
- Rinse function for reducing carryover issues
- Surfactant Media Compatibility

SAMPLE COLLECTION

- 18 X 8 sets of samples can be collected. For more sampling interval, 24 X 8 collection trays are available
- Option of 1.5ml & 2ml HPLC vial 24 X 8 tray is available
- Auto recognition Sensor for tray with alarm facility for collection of sample
- Wide mouth vial to minimise SLS spillover problem due to foaming characteristics
- Easy positioning with respect to vials or test tube tray for easy changeover



INTELLIGENT SAMPLING SYSTEM

- Automated sampling as per USP Specifications. Sampling tubes are lowered in the media only at the time of sampling and withdrawn immediately after sampling, thus no part of the assembly contributes motion, agitation or vibration
- Sampling tubes are accurately moved to the USP sampling position i.e. a zone mid way between the surface of media and the top of paddle/basket parameters, not less than 1 cm from the vessels wall as selected in the method
- 6 vessels temperature monitoring system automatically measures and records the temperature of individual vessel at specified sample points

ADDITIONAL FEATURES

- Built-in Validation software
- Facility to RINSE the entire sampling path in between sampling time-point to eliminate contamination & carryover
- Specially developed cleaning system to clean the entire sampling path after each run
- Facilities to perform the dissolution test using 3 buffers (Buffer changing) to cater the application of enteric coating tablets
- Recovery Test facility to study 100% Drug Dissolution
- Split & on-time interval

REPORTS

Report Format, complying Run, Date and Time with GLP requirements

- RUN REPORT
  - » Report giving Run No., Set parameters and Actual parameters during the dissolution process
  - » Printout of each vessel temperature and paddle/basket speed at every sampling interval for validation
  - » Validation report for Temperature, RPM, Sample Volume and Replenishing Volume

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
- Auto or Manual Archive and Data Backup facility available

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	17 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)	71.5*60*70.5 cm
Weight	80 kg Approx

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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.

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