LABINDIA
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BLUE SERIES

TABLET DISSOLUTION TEST APPARATUS

DS 8000 (Basic)

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DISSOLUTION TEST APPARATUS

Dissolution Tests are conducted to determine the drug release patterns, physiological availability and bioavailability of formulated drug products. It is also used as a quality control tool. The Dissolution rate of a drug from the solid state is defined as the amount of drug substance that goes into solution per unit time under standardised conditions of liquid / solid interface, temperature, and solvent composition.

LABINDIA brings to you the State-of-the-art Dissolution Testing Apparatus in elegant design with advanced features, which supports USP 1, 2, 5 & 6. Apparatus for Intrinsic test & stationary basket methods are available.

STANDARD FEATURES

- **Advanced, Micro-Controller based:** User-friendly, complies with current USP, BP, IP & EP specifications.
- **Splash waterproof keyboard:** Alphanumeric polyester soft keys for keyboard.
- **Moulded water bath** with **6+2 (3+1 & 3+1)** vessel configuration enables comparative studies.
- **External vibration free Water Circulator:** for uniform water circulation, with audible, low water level alarm, with indication on display for safety.
- **Mono shaft design** with automatic adjustment for 25 mm depth setting 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.
- **Tablet dispenser -** drops 6 dosage form at single instance. (Optional)
- **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 DTS Technology (Digital Temperature Sensor)

SOFTWARE

- **GLP Compliance:**

» Alphanumeric 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.
» Daily Auto Incremented Run Number and factory entered CUSTOMER NAME with Instrument Serial Number on report printouts make the system foolproof.
» Non-Volatile memory storage of 15 methods with parameters.

- **Protects Editing, Avoids invalid entries:**
  » Two tier password protection - Admin and User
- **Ease in operation:**
  » Dissolution RUN can be started with last run parameters.
  » Facility to view Set Parameters during RUN.
  » 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 meets all requirements relating to validation, qualification and calibration.
- Appropriate qualification documents (I.Q. / O.Q.) can be supplied with the instrument.

ADDITIONAL FEATURES (OPTIONAL)

- 6 Vessels Temperature Monitoring System automatically measures and records the temperature of individual vessel at specified sample time points.
- Validation Software for RPM & Temperature.
- Recovery Test facility to study 100% Drug Dissolution.

REPORTS

Selectable Report Format, complying with GLP requirements.

RUN REPORT

a) Report giving Run No., Set parameters and Actual parameters during the dissolution process.
b) Diagnostic functionality report to ensure proper working of the system
c) Printout of each vessel temperature and paddle/basket speed at every sampling time point for validation.
d) Validation report for Temperature & RPM

TYPICAL SPECIFICATIONS

Control	Micro controller based (Advanced version of microprocessor).
Display	40 x 2 line back lighted liquid crystal display (LCD)
Keyboard	Alphanumeric splash waterproof polyester soft keys.
Method Storage	15 programs with parameters.
Data Storage	Available with Non-Volatile memory. More than 10,000 reports
Water Bath	17 litres capacity with built-in water level sensor / Front located drain tap for easy draining of the water bath.
Bath Circulation	External vibration free water circulator
Temperature Range	20°C to 55°C
Temperature Resolution	0.1°C
Temperature Control Accuracy	up to 45°C ±0.1°C & >45°C up to 55°C ±0.2°C
Temperature Sensor	DTS - Digital Temperature Sensor
Evaporation Loss	1% (at 50 RPM / 37°C / 1000mL / 24hrs)
Paddle/Basket Shaft Speed Range	20 to 350 RPM ±0.5 RPM
RPM Speed Accuracy	20 to 300 RPM ±0.5 RPM & Above 300 RPM ± 0.8 RPM
Dissolution Vessel	option for Polycarbonate / Glass Vessels (clear, amber, peak vessels, 250, 150 & 100 ml dissolution vessels available)
Sampling Time Selectivity	Fixed/Programmable (varying intervals)
Time Interval Selectivity	In steps of 1 minute
Maximum Number of Intervals	30
Dissolution Process Time	1 min. to 720 hours
6 Channel Temperature Reader	Optional - with Temperature Reader
Report Format	**a)** GLP & Pharmacopeia compliant **b)** Program parameter report
Output	**a) Printer:** Compatible for deskjet, inject and dot matrix printer with parallel port **b) RS232C:** For PC Connectivity **c)** 21 CFR Part 11 compliance software available (optional)
Power	110 / 220 V AC - 50 Hz / 60 Hz
Environmental Operating Conditions	**a) Operation:** Indoor. **b) Temperature:** Ambient to 45°C. **c) Humidity:** 5 to 90% non-condensing.
Dimensions	71.5 x 60 x 70.5 cms. (W x D x H)
Weight	80 kgs. approx.

Special Note: Dissolution System with 2 liter bowl provision is also available with similar configuration & specifications

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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 your needs are, come to us, **GET THE BEST**

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