ERWEKA
a VERDER company

DISSOLUTION TESTER

BIODIS RRT 10

With the ERWEKA RRT 10, automatic dissolution tests for various extended and sustained release dosage forms are now easier than ever before. This device is perfectly suited to simulate the pH changes within the human body. By placing different media in each row, the device mirrors the different gastrointestinal conditions of the body in vivo.

An automatic sample transport between rows enables reliable extended or sustained release testing of different dosage forms in different pH zones. The easy-to-program RRT 10 is therefore the perfect device for changing the pH of multiple media for IV / IVC testing and dissolution profiling of a variety of prolonged release dosage forms (e.g. tablets, coated tablets and oblongs).

DISSOLUTION TESTER BIODIS RRT 10

100% USP / EP / JP COMPLIANT

The RRT 10 complies 100 % with USP / EP / JP standards and is available either as USP method 3, USP method 7 or as a combination device of both USP methods. It is equipped with an external flow-through heater that minimizes vibrations on the device. In addition, the device offers a mobile touch display that is easy to operate and enables convenient control.

The vessels are housed in an acrylic water bath with an outlet valve for easy cleaning, and the RRT 10's automatic cover system reduces evaporation of the media.

FLEXIBLE DEVICE FOR DIFFERENT USE CASES

PRODUCT HIGHLIGHTS

100% USP / EP / JP Compliant

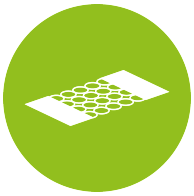
As all ERWEKA products, the BioDis RRT 10 is 100 % compliant to USP / EP / JP

Three Configurations Available

USP process 3, USP process 7 and a user-definable combination device for both USP processes

Touch Display for Comfortable Control

Detachable unit with storage space for up to 100 products, media and methods



Automated Evaporation Cover

Unused vessels are automatically closed

External Heater

An external flow-through heater reduces the influence of external vibrations and ensures a constant temperature

Different Tools Available

Depending on the applied USP method, we offer a wide range of tools

TAILORED TO YOUR NEEDS

THREE CONFIGURATIONS

100 MM STROKE

USP 3

- 100 mm stroke height
- 300 & 1000 ml vessel for reciprocating cylinder
- Method not changeable by user

20 MM STROKE

USP 7

- 20 mm stroke height
- 50 ml, 100 ml, 300 ml & 1000 ml vessel for different types of tools
- Method not changeable by user

100 MM & 20 MM STROKE

USP 3/7

- 100 mm & 20 mm stroke height
- 50 ml, 100 ml, 300 ml & 1000 ml vessels for different types of tools
- Method changeable by user

DISSOLUTION TESTER BIODIS RRT 10

OPTIONS

- 4 racks for 3 test stations each for 1000 ml vessels (USP 3)
- 8 racks for 6 test stations for 50-300 ml vessels
- 8 racks for 7 test stations for 50-300 ml vessels
- Different vessel sizes: 50 ml, 100 ml, 300 ml, 1000 ml
- Evaporation covers for different vessels
- 50 ml vessel, amber glass & adapter ring for 300 ml rack
- Multiple sample holders for both methods
- IQ / OQ documents

DISSOLUTION TESTER BIODIS RRT 10

TECHNICAL DATA

Weight	50 kg
Dimensions (H x W x D)	690 x 630 x 670 mm
Voltage	110/220/240 V; 50-60 Hz
Fuses	115V/250V, 15A T (slow) 2x 250V, 1A T (slow) / 115V, 2A T (slow)
Test stations	8 rows with 6 stations (standard configuration) and 2 vials for reference purposes or 7 test stations without reference positions
Water bath	Water bath of 30 litres volume, clear acrylic glass
Thermostat	Heating rate 1500 w, 30-50° C, accuracy +/- 0.2° C
Temperature control	External PT 100 temperature sensor
Test vessels (standard)	300 ml USP-compliant cylindrical flat bottomed glass vessels (standard configuration)
Test cylinders (USP method 3)	USP-compliant glass reciprocating cylinders fitted with mesh screens of stainless steel or synthetic material (automated centring inside the vessel)
Formulation holder (USP method 7)	Whole range of USP-compliant holders for non-eroding formulations made of stainless steel or polytetrafluoroethylene
Speed	Speed adjustable from 5-40 strokes/min., accuracy better than +/- 5 %
Height of stroke	100 mm (USP method 3) 20 mm (USP method 7)
Evaporation	Vessels protected by automated covering system
Control of the unit	Operation by color-touchscreen, password protected access to firmware with OQ functions and product memory