

Dissolution System RoboDis II

Fully automated dissolution system



The RoboDis II is a 100% USP/EP compliant dissolution system for fully automated dissolution testing of up to 10 batches with USP method 1 (basket) or 2 (paddle).

The high-performance system is managed via the 21 CFR Part 11 compliant Disso.Net software. The software controls all functions including the precise robot arm movement as well as all analytical devices including data processing.

Integrated system suitability tests (SST) ensure reliability and easy control. Due to a parallel sampling approach, very short cycle times for measuring profiles can be realised.

RoboDis II Highlights:

- Fully automated dissolution testing for up to 10 batches
- USP method 1 and 2 basket and paddle
- 100% USP/EP/JP compliant
- pH change in accordance with USP method A (half change), pH measuring in each vessel
- Parallel sampling approach
- Handling of Japanese sinkers
- Handling of up to 6 different media (concentrates and/or ready prepared) independently controlled by load cell
- Vacuum degassing of the pre-heated dissolution media in accordance with USP
- Filters precisely fitted by robot hand

- Filtration with flat membrane filtres (\geq 0,22 µm) supported
- Several analytical methods supported
- Support of several photometers and HPLC-systems
- Sampling time points independent of HPLC runtime
- Integrated system suitability tests for filling procedure, analytical method, system cleaning and test parameters (e.g. rotation speed, temperature)
- Video monitoring in time-lapse mode with overlaid real time dissolution curve
- Flexible bidirectional connection to various IT systems integrated

Analytical Methods:

- Fraction collection
- HPLC online connection
- Buffered HPLC online connection

- UV/VIS online connection with flow-through cells
- Combination of all of the above
- Combined HPLC and UV/VIS online connection

Dissolution System RoboDis II

Tablet / Basket Storage

- Handling of up to 10 batches per robot start
- Containers/baskets easily accessible at cabinet door
- No negative influences by temperature or humidity
- Handling of tablets, granulates, pellets
- Handling of USP Japanese sinkers supported

Medium Preparation and Supply

- Mobile tank for 120 litre media with optional stirred
- Up to 6 (SUPAC) different media, media concentrates per start supported
- Preheating and vacuum degassing in accordance with USP
- Filling with precise piston pump, gravimetric controlled
- Parallel preparation of the next media during run
- Handling of foaming media supported

Tablet Handling (Paddle)

- Tablet transfer and parallel tablet drop by robot hand.
- Handling of Japanese sinkers
- High accuracy and reliability
- Pellets and granulates can be handled

Tablet Handling (Basket)

- Basket mounted by robot hand
- Handling in accordance with USP/EP and FDA Mechanical Calibration
- Used baskets are dropped into a container





Precise basket mounting



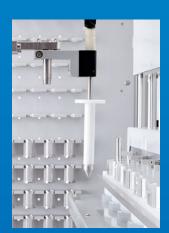
tainers in cabinet door



Up to six different calibration standards

Sampling System Basic

- USP compliant sampling station with 1 µm or 10 µm Poroplast inline filters
- Temperature measuring in each vessel
- Parallel sampling with peristaltic pump IPC 8
- Closed loop system, no withdrawal of sample



Automatic media preparaton

Filling hand



Handling of Japanese sinkers, parallel tablet drop

Sampling System Advanced

- USP compliant sampling station with 1 µm or 10 µm Poroplast inline filters (pre filtration)
- Second filtration with 0.22µm, 0.45µm membrane filters with automatic filter changer AFC 825
- Valve-free ceramic piston pump PVP 820

pH change

- pH change in accordance with method A (half change)
- Handling of the pH sensor by robot arm
- Automatic measuring of the pH value in one or each vesse
- Documentation of all data obtained including calibration of the pH meter





UV/VIS online connection

pH change in accordance with USP method A (half change)

Automatic Cleaning

- Parallel cleaning performed automatically
- Number of cleaning steps can be chosen
- Result of the cleaning process is checked (SST)
- Contaminated media can be separated
- Integrated water stop

Video Recording in Time-Lapse Mode

- Video recording of the dissolution process in time-lapse mode
- Up to 6 cameras supported
- Overlapping real-time dissolution curve
- Support for formulation and dissolution method development



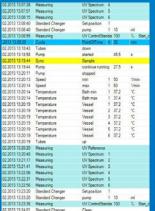


Vessel cleaning

Video recording

System Control

- 21 CFR Part 11 compliant Microsoft Windows based Disso.
 Net software package
- Interactive communication between RoboDis II and analytical method
- User defined reports via "Crystal Reports"
- Online control of rpm and temperature
- Bidirectional LIMS interface via XML
- Windows XP, Windows 7 and 8 compatible





The Disso.net software controls the system and transfers data

See RoboDis II in action!



Visit www.robodis.com for our latest video and more information about the RoboDis II.

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At www.RoboDis.com you will find

- RoboDis II video see it in action!
- Detailed pictures of RoboDis II
- Downloads



Technical specifications for the products described are stated without warranty and subject to change at any time.

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