

# Tablet Dissolution Tester

## SIMPLY SMART - MAKE YOUR EVERYDAY WORK EASIER

### TABLET DISSOLUTION TESTING

In the majority of cases, the effectiveness of tablets or capsules administered orally relies on the drug dissolving in the fluids of the gastrointestinal tract, prior to absorption into the systemic circulation. For this reason, the rate at which a tablet or capsule dissolves is critical to its therapeutic efficiency and is a key factor in both the formulation process and final quality control. The most common instrument used to measure the dissolution rate of solid dose forms is the Dissolution Tester. Common apparatus like the basket and the paddle are using the same basic configuration, are simple, robust and can be used to test a variety of different products.

### RIGGTEK DISSOLUTION TESTER „Dissilio“

The Dissolution Tester Series „Dissilio“ represents innovative, reliable and easy to use technology in tablet testing. Innovative features and design according our customer demands result in real user-friendliness. ISO 9001:2015 quality standards combined with “Quality by Design” guarantee the highest standards of accuracy, performance and reliability for minimization of ongoing laboratory costs. Of course, all RIGGTEK dissolution testers meet the latest specifications as laid down in the European, United States and associated Pharmacopoeias.

### „Dissilio“ SMART FEATURES

easy, intuitive operation and real time monitoring via your PC with the innovative „Browser Interface“ without any software installation



intuitive 7" touchscreen control for easy operation, can be operated with gloves on



modern interfaces like LAN and USB available, Parent-Child-functionality, optional automatic periodic Backup to USB or FTP and optional control via Autosampler „Sampilio“



optional CFR-compliance with individual user permissions, commenting of audit-trail and electronic signature etc.



robust and corrosion resistant design with compact footprint and height, individual clutches enable each individual shaft to be raised, lowered or engaged independent of the drive head



secure and self align vessel positioning with protective vessel ring and orientation mark



self-priming heater controlled by PT100 for highest temperature precision, optional cooling version to cool down to 5°C for fast releasing products (DTX8 only) or „ENERGY-Package“ for enhanced energy saving



various accessories available like Rotating Cylinders, Small Volume, Intrinsic, Immersion-Cell, Teflon-Coating, Automatic-Tablet-Drop



certification of shafts, vessels, paddles and baskets as standard (serial numbered with Certificate of Conformance)



convenient screw-in accessories like paddles and basket for easy method change, automatic height adjustment between paddles and baskets



one piece leak-proof water-bath with rounded edges and drain tap for easy emptying and cleaning



smart storage compartments for dissolution accessories like paddles and baskets integrated as standard



6 to 8 (DTX8) or 12 to 16 (DTX16) test station unit configurations available, compatible to use vessels of Distek, Erweka, Agilent, QLA-Ultra-Center- Vessels, Sotax, Copley - other brands on demand - for easy method transfer from competitive instruments! Of course also in Amber or with other special vessels



All these specifications and features have one target – MAKE YOUR EVERYDAY WORK EASIER. And they ensure, that the „Dissilio“ is your ideal partner for both R&D and quality control applications in dissolution testing, your everyday workhorse or your innovative partner in research. The

„Dissilio“ is flexible to fit to your individual needs, innovative to drive your progress and prepared to replace easily the prior Dissolution Tester from any brand. Rely on precision, passion and experience in engineering „Made in Germany“ – rely on your „Dissilio“! Ask for your individual offer.



	Dissilio DTX8	Dissilio DTX16
VESSEL POSITIONS	6 standard (7, 8 optional)	12 standard (13-16 optional)
VOLUME	500-1000ml and 100ml, 200ml, 250ml with small volume kits	
METHODS	possible are USP methods 1 (Basket), 2 (Paddle), 5 (Paddle over Disk) and 6 (Rotating Cylinder), Intrinsic, Immersion Cell, Felodipine Baskets, suppository baskets and more	
COMPLIANCE	100% USP/EP/JP compliant, Fulfills all specifications in accordance with FDA „Mechanical Calibration“	
AUTOMATION	Automatic Tablet Drop optional, combination with Autosampler optional	
SPEED	Range: 25-300RPM (25-50 for qualification issues only) Control: digital closed loop circuitry with automatic checking compensating Accuracy: + / - 2%	
SPEED RESOLUTION INTERNAL	0,1 rpm	
SPEED ACCURACY	+/- 1 rpm up to 100 RPM and $\pm 1\%$ > 100 RPM	
TEMPERATURE	Range: Ambient (max.28°C) - 50°C, independent cooling optional down to 5°C Stability: + / - 0,1°C	
TEMPERATURE PROBE	Model PT100 Compliance: DIN 751 for class A devices Resolution: 0,01°C Tolerance/Accuracy: + / - 0,2°C Instrument Reading: + / - 1 digit	
OVER-TEMPERATURE PROTECTION	50 - 55°C variable adjusted (by second internal thermostat)	
EVAPORATION	typically less than 1% during 24 h (37 °C / 50 rpm / 1000 ml) – depending on used vessel covers	
INTERFACES	USB, RS-232, RS-485, LAN	
DISPLAY	7" colour touchscreen, operable with gloves	
USER MANGEMENT	Manage > 1000 Users with individual user permissions	
STORAGE	> 100.000 Methods and > 100.000 Reports	
USER SUPPORT	Browser-Interface for easy administration via PC incl. real time monitoring, search function in all relevant list (method list, report list), optional TOP-package: Electronic Qualification Tracking with Due Alerts for USP/EP compliance of the unit, acoustic and optic reminder of manual sampling, pH change routines menu guided, Electronic Part Serial Numbers tracking, backlight LED for enhanced visual inspection, optional ENERGY-package: programmable method start time (optional), sleep and wake up modes (optional),	
CFR COMPLIANCE	CFR-package with multiple settings, electronic signature, comment on Audit Trail, etc. for CFR compliant working	
BACKUP	BACKUP-package for fully manual or automatic backup to USB or FTP-server	
ENERGY SAVING	Energy-Package with special features to save energy and costs like special isolation of the waterbath, programmalbe method start time, sleep and wake up modes	
DIMENSIONS	Main unit: W 66cm x D 43cm x H 66cm Heater: W 26cm x D 13cm x H 37cm	Main unit: W 120cm x D 43cm x H 66cm Heater: W 26cm x D 13cm x H 37cm
WEIGHT	without accessories (e.g. shafts, paddles, vessels, etc.) 38kg (water tank empty)      75kg (water tank empty) 58kg (water tank filled)      115kg (water tank filled)	
VOLTAGE SUPPLY AND POWER RATING	220-240 V 50/60 Hz 230V, 50/60Hz, 1,85kW 115V, 50/60Hz, 1,85kW 100V, 50/60Hz, 1,5kW	220-240 V 50/60 Hz 230V, 50/60Hz, 1,85kW 115V, 50/60Hz, 1,85kW 100V, 50/60Hz, 1,5kW
ENVIRONMATENTAL CONDITIONS	15 to 30°C (Minimum 10°C below the test temperature) 20 to 80% relative humidity,non-condensing	

\*specifications are subject to change without further notice

