

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 TXeco“

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



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



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



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



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



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



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



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



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



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



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



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



6 to 8 (DTX8) or 12 to 16 (DTX16) test station unit configurations available, compatible to use RIGGTEK vessels and vessels of other brands - 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	Designed 100% USP/EP/JP compliant and fulfill all specifications in accordance with FDA Enhanced Mechanical Calibration	
AUTOMATION	Automatic Tablet Drop optional, combination with Autosampler optional	
SPEED	Range: 25-300RPM (25-30 for qualification issues only) Control: digital closed loop circuitry with automatic checking compensating ± 1 rpm up to 100 RPM and $\pm 1\%$ > 100 RPM Resolution internal: 0,1 rpm	
SPEED SENSOR	Model: Optical Encoder Accuracy: $\pm 2\%$	
TEMPERATURE	Range: Ambient (max.28°C) - 50°C, independent cooling optional down to 5°C Stability: $\pm 0,1^\circ\text{C}$	
TEMPERATURE PROBE	Model: PT100 Compliance: DIN 751 for class A devices Resolution: 0,01°C Tolerance/Accuracy: $\pm 0,2^\circ\text{C}$	
OVER-TEMPERATURE PROTECTION	50 - 55°C variable adjusted (by second internal thermostat)	
MAXIMUM RUNTIME	999h 59min 59s	
EVAPORATION	typically less than 1% during 24 h (37 °C / 50 rpm / 1000 ml) – depending on used vessel covers and media	
INTERFACES	USB, LAN	
DISPLAY	7" colour touchscreen, operable with gloves	
USER MANGEMENT	Manage unlimited number of users with individual user permissions	
STORAGE	> 100.000 Methods and > 100.000 Reports	
OPTIONAL PACKAGES	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 ENERGY PACKAGE: programmable method start time (optional), sleep and wake up modes CFR PACKAGE: with multiple settings, electronic signature, comment on Audit Trail, etc. for CFR compliant working BACKUP PACKAGE: for fully manual or automatic backup to USB or FTP-server	
REMOTE ADMINISTRATION	Browser-Interface for easy administration via PC incl. real time monitoring, search function in all relevant list (method list, report list)	
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.) 37kg (water tank empty) 70kg (water tank empty) 52kg (water tank filled) 98kg (water tank filled)	
VOLTAGE SUPPLY AND POWER RATING	Main Unit: 220-240V, 50/60Hz, 0,10KW Heater: 230V, 50/60Hz, 1,85kW Heater: 115V, 50/60Hz, 1,85kW Heater: 100V, 50/60Hz, 1,50kW	Main Unit: 220-240V, 50/60Hz, 0,10KW Heater: 230V, 50/60Hz, 1,85kW Heater: 115V, 50/60Hz, 1,85kW Heater: 100V, 50/60Hz, 1,50kW
ENVIRONMATENTAL CONDITIONS	18 to 30°C (Minimum 10°C below the test temperature), stable within $\pm 1^\circ\text{C}$ within 30 minutes and $\pm 2,5^\circ\text{C}$ absolute 25 to 75% relative humidity, non-condensing	

* specifications are subject of change

