

Dissolution Autosampler and Fraction Collector INDEPENDENT · FOR ALL DISSOLUTION TESTER



PRINCIPAL OF FRACTION COLLECTION

Normally, a Dissolution Autosampler consists of a peristaltic or syringe pump, which is responsible for transporting the samples from the dissolution tester to the collector, as well as a PC and an interface box for controlling the system during operation. The operating principle is to flush and to precondition the tubes and pumps with media from the vessels, transfer the samples into test tubes or HPLC vials and return all unused media back into the vessels. The disadvantage of peristaltic or syringe pumps is the high dead volume and too long sampling intervals, a higher cross contamination risk, which ultimately leads to inaccurate test results.

RIGGTEK Autosampler „Sampilio X8“

The Sampilio is a new generation of Dissolution Autosampler, it is specifically designed on a very compact footprint and a patented series of 6, 7 or 8 bidirectional small volume diaphragm pumps to facilitate the flush-sample-purge functions with many advantages over the more conventional peristaltic or syringe pumps:

- First In/First Out (FIFO) principle
- Low dead volume and cross contamination
- Short sampling intervals (2 min)
- Long lifetime with no abrasion
- Wide range of applications, incl. organic solvents

„Sampilio X8“ SMART FEATURES

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

Patented diaphragm pumps for short sampling intervals and low cross contamination
High precision sampling $\leq 0.25\text{mL}$, $\leq 5\%$ on $>5\text{mL}$

Sampling directly into Test Tubes or sealed HPLC-vials

Robust and corrosion resistant design with compact dimensions including integrated pumps

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

Modern interfaces like LAN and USB available, optional Parent-Child-Functionality, for easy method and user transfer between different Sampilios

Flexible to connect to every dissolution tester with individual sampling cannulas and filters

Optional automatic, periodic backup to USB or FTP

Easily exchangeable cannulas filters and auto washing of the complete system to prevent cross contamination

Various accessories available like additional Racks, Media Replacement

All these specifications and features have one target – MAKE YOUR EVERYDAY WORK EASIER. And they ensure, that the „Sampilio X8“ is your ideal partner to reduce your labor costs and working time compared to manual taken samples from your dissolution tester.

Elevate your sample collection with the Sampilio X8. Ensure reproducibility and 21 CFR Part 11 compliance while embracing German precision and sustainable engineering. Experience the „Made in Germany“ difference in every sample.



Sampilio X8

TEST TUBE AND VIAL CAPACITY	HPLC vials 2mL (max. OD 12mm, max H 35mm) Test tubes 10mL (max. OD 14mm, max H 100mm)
RACKS	Vial and Test tubes racks with 10 rows and 8 lines 1 additional row for Recycling media with Test tubes, material: POM
RACK CHANGE	Possible during running a method, additional racks available as an accessory
PUMPS	Standard 6 pumps with 180µL stroke volume Optional: 2 additional pumps
PUMP FLOW RATES	Standard 1 - 10 mL/min Optional: 1 - 20 mL/min
TUBINGS	Material PTFE, ID 1.2mm, 2.26mL volume Optional: PTFE, ID 1.0mm, 1.57mL volume Without pumps, internal tubings, needles, filters, transfer module
INTERNAL VOLUME	0.5mL (with Pumps, internal tubings, needles)
VOLUMETRIC PRECISION	≤ 0.25mL, ≤ 5% on ≥ 5mL, limited by used filter and media
SAMPLE VOLUME	0.5 - 8mL (Optional: 10mL)
CROSS CONTAMINATION	< 1% at 2min sampling interval
SAMPLE INTERVAL TIME	2min - 999h 59min 59s (limited on selected flow rates and volumes) time point accuracy 0.5%
TRANSFER OPTION / MEDIA REPLACEMENT	Optional modul to replace media in the vessel
AUTOWASH	Volume and number of cycles selectable, 1 cycle, 8mL, typ. 5 min
INTERFACES	USB, LAN, RS232
PRINTER	USB, LAN PCL-5 and PCL-6, ASCII Font
USER MANGEMENT	Manage unlimited number of users with individual user permissions, PIN-Login optional
STORAGE	> 100.000 Methods and > 100.000 Reports
OPTIONAL PACKAGES	CFR PACKAGE: with multiple settings, electronic signature, comment on Audit Trail, etc. (for CFR comliant working) BACKUP PACKAGE: for fully manual or automatic backup to USB or FTP-server
REMOTE ADMINISTRATION / BROWSER INTERFACE	Effortless management of methods, reports, users, roles, audit trails, and system settings using the latest versions of Microsoft Edge®, Google Chrome®, or equivalent browsers.
DIMENSIONS	W 30cm x D 58cm x H 55cm
WEIGHT	26kg (net)
VOLTAGE SUPPLY AND POWER RATINGS	90 - 230V, 50/60Hz, 70W
ENVIRONMATENTAL	15 to 40°C, less 95% humidity
PATENT-NO.	US 8,899,101 / DE 16.102011008024 / JP 5662189

* specifications are subject of change

