

RAMONA QUATTRO

4 β^- RADIOACTIVITY HPLC FLOW DETECTORS IN ONE INSTRUMENT

THE MOST SENSITIVE DETECTION METHOD FOR LOW ENERGY β^- NUCLIDES.

- ULTRA HIGH SENSITIVITY
- ULTRA HIGH RESOLUTION
- 4 DETECTORS IN 1 INSTRUMENT
- FOR ALL HPLC BRANDS WITH ANALOG DETECTOR SIGNAL OUTPUT



RAMONA* quattro contains 4 beta-radioactivity-coincidence-flow-detectors in 1 instrument. RAMONA* quattro is using 4 pairs of 2 x 1 1/8" photomultipliers in coincidence in order to arrange 4 flow cells, one after the other. 4 coincidence-detectors are measuring the beta-radioactivity in HPLC-flow individually.

The recording PC can display 4 individual traces of HPLC-flow detectors on the screen. Each trace shows the same chromatogram slightly delayed. The individual fraction is flowing from the first to the second, third and fourth coincidence detector and is recorded individually. The flow time from the first to the second, third and fourth detector can be determined individually. Entering the individual flow delay from the first to the second, third and fourth detector to the recording program, 4 simultaneous chromatograms can be obtained and each trace delay can be adjusted individually. After that, 4 individual chromatograms can be added up and in trace 5 the sum of the 4 individual chromatograms is displayed. The display of the 4 single traces can be suppressed and only the sum shown. Peak-integration can be performed during measurement and live display. This procedure improves the sensitivity of the radioactivity-flow-detector-system effectively. While the peaks are growing linearly by 4, the background is adding up to $2 = \sqrt{4}$ only.

Additional features are:

- Wet parts made out of stainless steel, quartz glass, PTFE
- Shielding: stainless steel, low activity lead
- Automatic change liquid scintillator to solid scintillator
- Optional control program Gina Star with live display on PC screen
- At least 2x more sensitive as the classical Ramona Star

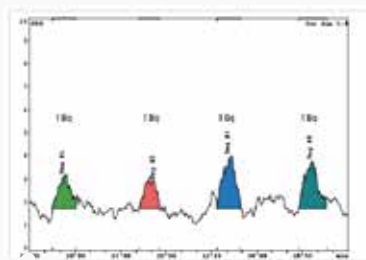
Technical specifications

Photomultiplier	4x2 photomultiplier 1 1/8"
Flow cell	Internal solid scintillator 4 x 40 µl 4 x 100 µl
Eluate flow rate	100 - 1000 µl / min



Operation mode with Gina control (optional)

Display	Live on PC screen
Y-scale	Selectable during run, no loss of data by overriding range
X-scale	Individually selectable during run, no loss of data
Smoothing	Individually, during run
Delay calibration of	Individually displayed on screen
Summation of traces	Automatically
Display of sum trace	Individually
Peak integration	Live



Operation mode stand-alone

Output	0-2,5 V, 20 bit
Digital display	4 x 20 character LCD
Parameter entry	Guided dialogue
Ratemeter range	Selectable
Smoothing	Selectable

Physical specifications

Dimensions	W470xD430xH162mm (W18,50"xD16,92"xH6,37")
Weight	30 kg (66,13 lbs)



Email:
Website:
Headquarters:

info@elysia-raytest.com
www.elysia-raytest.com
Elysia s.a.

rue du Sart-Tilman 375
4031 Angleur - Belgium
Tel +32 (0)4 243 43 50
Elysia-raytest GmbH
Benzstraße 4
75334 Straubenhardt - Germany
Tel. +49 (0)7082 92 55 0

Production: