

itG Quality Control Solution

First-in-class γ -spec Radio HPLC S 3710



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Fully integrated HPLC system for research and clinical routine in radiotracer-/ radiopharmaceutical analytics.

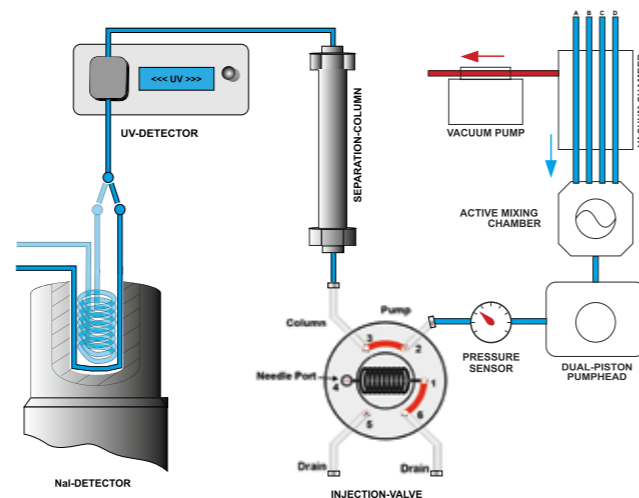
The itG Quality Control Solution, γ -spec Radio HPLC S 3710, is a ready-to-use system for n.c.a. Lu-177, Y-90, Ga-68 radiolabeled peptides setting industry standards in terms of functionality and usability (in accordance with Ph. Eur. Standards). With an integrated quaternary HPLC-pump, UV detector and latest Chromstarworkstation 7.0 software, the γ -spec S 3710 is first-in-class to offer full Radio-HPLC technology within this extraordinary compact system. The central unit provides a shielded column chamber which minimizes radiation exposure of personnel to an all-time low.

- > High-performance Quality Control of radiopharmaceuticals
- > Gamma detection (20 – 1300 keV)
- > Sophisticated radiation protection
- > Highly-sensitive 2" NaI(Tl) scintillation detector
- > Half-life-adjusted peak intensities

The integration of high-quality HPLC components into our γ -spec S 3710 allows the development of a state-of-the-art, compact and easy-to-use Radio-HPLC system.

The gamma detector's key element is a 2" NaI(Tl) scintillation counter. In order to reach a new quality of interaction between scintillator and measurement loop, the integrated measurement loop is being inserted into the borehole.

A switch on the front panel allows the easy configuration of measurement loop volumes (5, 50 and 250 μ l) thereby ensuring a variety of measurement tasks.



Radio HPLC – module specifications

γ -DETECTOR

Half-life correction	Peak intensities in Data System
Material	PEEK; PFA
Detector	2 x 2" NaI(Tl) pinhole
Shielding	40 mm Pb equivalent
Energy range	20 – 1.2 MeV
Background noise	40 cpm
Dynamic range	0 – 400.000 cps
Flow cells	Variable 5 μ l, 50 μ l, 250 μ l, selected by fitting setting
Column cabinet	Integrated with lead shielding 25 mm Pb-equivalent
Injection valve	Integrated
Data output	Digital, pulse counting
Column selection valve	Optional
Weight	38 kg
Dimensions	396 x 165 x 478 mm
Power supply	100 – 250 V (47 – 63 Hz)

S 3250 UV/VIS DETECTOR

Material	Stainless steel/PEEK*
Baseline noise	$\pm 1 \times 10^{-5}$ AU (@240 nm, 1 sec risetime)
Baseline drift	2×10^{-4} AU/h
Wavelength range	190 – 900 nm
Wavelength accuracy	± 2 nm
Linearity	> 2.0 AU
Light source	Deuterium lamp, wolfram lamp
Wavelength program	Adjustable in 10 steps
Analogue output	1x 1V (optional: 2x 1V)
Additional features	Peak detector with +24 V switch contact for magnetic valve
Dimensions	396 x 165 x 478 mm
Weight	11 kg
Power supply	100 – 250 ~V (47 – 63 Hz)

* Depending on configuration

S 1128 GRADIENT PUMP

Material	Stainless steel/PEEK*, Teflon AF®, PVDF, ceramics, sapphire, ruby
Flow rate	Adjustable Micro: 0.001 – 2.000 ml/min Analytical: 0.001 – 10.000 ml/min
Flow accuracy	$\pm 1.0\%$ 1.000 ml/min
Flow precision	$\pm 0.1\%$ RSD 1.000 ml/min
Pressure range	0 – 40 MPa (0 – 6000 PSI)
Pressure pulsation	Typically < 0.1 MPa or < 1.0 %
Compressibility compensation	Depending on solvent
Dimensions	310 x 165 x 478 mm
Weight	11 kg
Power supply	100 – 250 ~V (47 – 63 Hz)

* Depending on design

ITM Isotope Technologies Munich AG

Shaping the Future of Theranostics




Targeting Vector DOTATOC

Excellent pharmacokinetic properties for somatostatin receptor targeting

Radionuclides

- › Lutetium -177 n.c.a.
- › Yttrium -90
- › Rhenium -188

All products manufactured by 

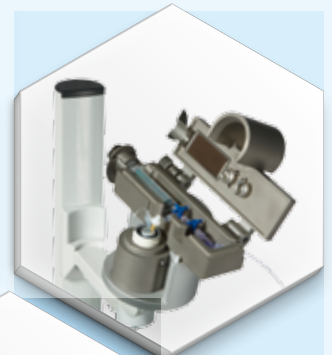
Radiolabeling Platform

Dedicated hot-cells for GMP manufacturing of radiopharmaceuticals



itG Quality Control Solution

First-in-class radio HPLC System



iQS® Ga-68 Fluidic Labeling Module

Fast and efficient labeling of DOTA-Peptides

itG Radionuclide Generators

- › Ge-68 / Ga-68
- › W-188 / Re-188
- › Ac-225 / Bi-213

Medical Devices

- › itm Rhenium-PTA*
Endovascular Brachytherapy
- › itm Rhenium-SCT*
Epidermal Radioisotope Therapy

Other products upon request.

* CE in Q3 2013

Stand 07/2013, Version 1.0

The itm Group is the leading pharmaceutical company for the development, production and worldwide distribution of highly effective radionuclides and medical devices for theranostics. Its commitment to setting industry standards in theranostics is built on robust platform technologies and a well-established global network of strategic and sales partners. The ITM AG and its subsidiaries ITG GmbH, itm OncoBeta GmbH and RP Munich GmbH are renowned for their excellence and precision in R&D and production, as well as for their unprecedented reliability and flexibility in terms of offering global logistic services and customer care, 365 days a year.

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