

Synthra RadChromplus

with Isocratic Pump (Catalog No. 021i)

Synthra RadChromplus is a complete radio-UV/Vis-HPLC system for routine quality control of any radiotracer. Measuring the radiochemical purity is simple with the user friendly and validated software Chromstar 7. Synthra offers two basic modules: one with an isocratic pump and a second module with a quaternary gradient pump. Both modules can be upgraded individually.

General Features

- ✓ **Isocratic pump**
 - Micro: Flow rate 0.001 – 2 mL/min (0 – 400 bar)
 - Analyt.: Flow rate 0.001 – 10 mL/min (0 – 400 bar)
 - Preparat.: Flow rate 0.1 – 40 mL/min (0 – 350 bar)
 - Pressure pulsation: typical < 1 bar or < 1%
- ✓ **Variable wavelength detector**
 - Baseline Noise: $\pm 1 \times 10^{-5}$ AU (240 nm, 1 s rise-time)
 - Baseline Drift: 2×10^{-4} AU/h
 - Wavelength range: 190 - 900 nm, accuracy: ± 2 nm
 - Light source: Deuterium and tungsten lamp
 - Output: 1×1 V (one channel)
- ✓ **Radioactivity detector**
 - Diode technology for **β particles only**
 - Sensitivity comparable to a 2" NaI well detector
- ✓ **Radioactivity detector NaI(Tl)**
 - 2" NaI(Tl) well detector with 5,5 cm Lead shielding
- ✓ **Vacuum degasser**
- ✓ **Manual injection valve (20 μ L sample loop)**
- ✓ **One eluent solvent supply bottle**

GMP Features

- ✓ **GMP compliant.** Electronic control and data collection (27/18 channels)
- ✓ **21CFRpart11 & LIMS** compatible



Terminal Control

- ✓ **A Laptop (Win 10 Pro) and Chromstar 7 are included**
- ✓ **Password protected access to software**

Possible Upgrades

- ➔ UV-detector upgrades: 2×1 V (2 channels) or DAD
- ➔ All wetted stainless steel parts are available in PEEK
- ➔ Additional SPE option (Catalog No. 021spe)