Patent Pending

RADIOPHARMATIC

Automated Radiopharmacy Processor for ^{99m}Tc Radiopharmaceuticals

Fully automatic, Aseptic Preparation of ^{99m}Tc Radiopharmaceuticals Including Elution, Labeling, Heating and Dose Dispensing

Safer, Faster, Aseptic and Fully Traceable Preparation with USP 797 compatibility

Mol-Image®
International Molecular Imaging

Headquarters:
Mongeri Building 19 Mayis Mh.
Dr. Sevket Bey Sk No:5
34360 Sisli-Istanbul / Turkey
Phone : +90 212-231 0303
Fax : +90 212-219 8222

R&D:
Tubitak-MAM Teknoloji
Gelistirme Serbest Bolgesi
41470 Gebze-Kocaeli / Turkey
Phone : +90 262-644 4020
Fax : +90 262-644 9295

General Specifications*

- Elution
    - Able to allocate 3 $^{99}Mo/^{99m}Tc$ generators (up to 40GBq each) at the same time
- Compatible with most of the $^{99}Mo/^{99m}Tc$ generator brands
    - HMI Sofware module showing
- Calibration date, expiration date for the generators
- Initial ^{99}Mo activity, current ^{99}Mo activity and expected ^{99m}Tc activity for each generator inside the system
- Labeling
    - Labeling with 3% dose activity accuracy
    - Labeling with 1% volumetric dose drawing accuracy
    - Able to allocate 5 same or different kit vials
    - Dilution with NaCl is possible
- Dose Dispensing
    - %1 volumetric dose drawing accuracy
    - Able to allocate 24 2cc Injectors +24 5cc Injectors
    - Able to allocate 8 2cc Injector shields for prepared patient dose injectors
- Syringes and vials are loaded into dedicated cabin designed as double-door airlock unit
- Output syringes (patient dose) are introduced with tungsten shielding inside a dedicated cabin which designed as a double-door airlock unit
- Automatic label/barcode printing upon the removal of a patient-dose syringe
- Standard 2cc and 5cc syringes as consumables
- No peristaltic pump, no tubing to change regularly
- Vials and syringes are handled via 6dof cleanroom compatible anthropomorphic robot
- Glove ports and lead glass window for observation and manual operation possibility
- AISI 316L stainless steel internal cabin structures
- AISI 304 stainless steel external finishing
- Lead and Tungsten shielding layers in order to assure NCRP-49 and ICRP-103 dose equivalent values
- USP 797 compatible
    - Full volume coverage Unidirectional Air Flow ventilation system inside the main cabin
    - ISO 14644 Cleanroom Class 5 air quality inside the main cabin
    - Negative differential pressure CACI (Compunding Aseptic Containment Isolator) structure
- Internal UV antibacterial lamp
- Touch Panel screen as HMI
- HMI software
    - Fully customizable batch processes (Elution, Labeling and Dose Dispensing)
    - Recipe database for kit labeling (Producer recommended recipes, and custom written recipes)
    - Full traceability over the processing and production history, system performance, …etc
    - Extensive report generating capabilities
    - Fully customizable dosing parameters
    - Software assistance for dose volume and activity calculation according to patient data, and available bulk eluate

*Mol-Image has the right to change the above specifications without notice.

Mol-Image®
International Molecular Imaging

www.molimg.com info@molimg.com