

[124I]FIAU Product

Product Description:

Name: [124] FIAU; Fialuridine,

 $1\hbox{-}(2\hbox{-}deoxy\hbox{-}2\hbox{-}fluoro\hbox{-}beta\hbox{-}D\hbox{-}arabino furano syl})\hbox{-}5\hbox{-}iodo\hbox{-}(2,4(1H,3H)\hbox{-}beta\hbox{-}D\hbox{-}arabino furano syl})$

Pyrimidinedione.

Priduct Specifications: MW 372.09, specific activity 27-35 Ci/μmole (carrier-free).

> 90% radiochemical purity (remainder sodium iodide), > 99% radionuclidic purity (remainder I-125) in 5.0 mL of sterile isotonic saline solution (saline for injection, USP) with 5% ethyl alcohol as antiradiolytic agent and 50mM of sodium phosphate as buffering agent, pH 5.5 - 8.5.

Expiration date: 4.2 days post-manufacture.

Radioactive Material, store refrigerated with sufficient radiation shielding.

Other solvents/buffering agents possible on request.

Applications: PET Imaging of FIAU biodistribution, Reporter gene imaging (HSV1-tk), bacterial imaging.

Availability: For in-vitro or in-vivo use. Human use is possible, with user's approved IND. A DMF (CMC and labeling information) has been filed with FDA for reference, and has resulted in approved IND applications.

Stability: Subject to autoradiolysis. Testing has shown degradation from 100% radiochemical purity at production to 94% after one day, 92% after 4.5 days, and 85% after 8 days. Testing (TLC) for degradation during transit is advised.

Sample Certificate of Analysis information:

 $Radionuclidic\ composition:\ 99.98\%\ I-124,\ 0.017\%\ I-125,\ no\ other\ radionuclides\ detected\ by\ gamma$

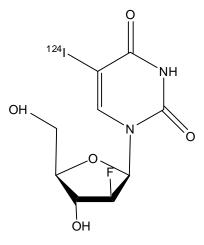
spectroscopy or decay curve analysis.

Radiochemical composition: 97.9% [I-124]FIAU, 2.1 % [I-124]NaI

Sterility test: in progress Pyrogen test: passed

pH: passed

Appearance: clear, particulate-free



Ph: 501-801-1253