



[¹²⁴I]FIAU Product

Product Description:

Name: [¹²⁴I]FIAU; Fialuridine,
1-(2-deoxy-2-fluoro-beta-D-arabinofuranosyl)-5-iodo-(2,4(1H,3H)-
Pyrimidinedione.

Product Specifications: MW 372.09, specific activity 27-35 Ci/ μ mole
(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 anti-
radiolytic 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

