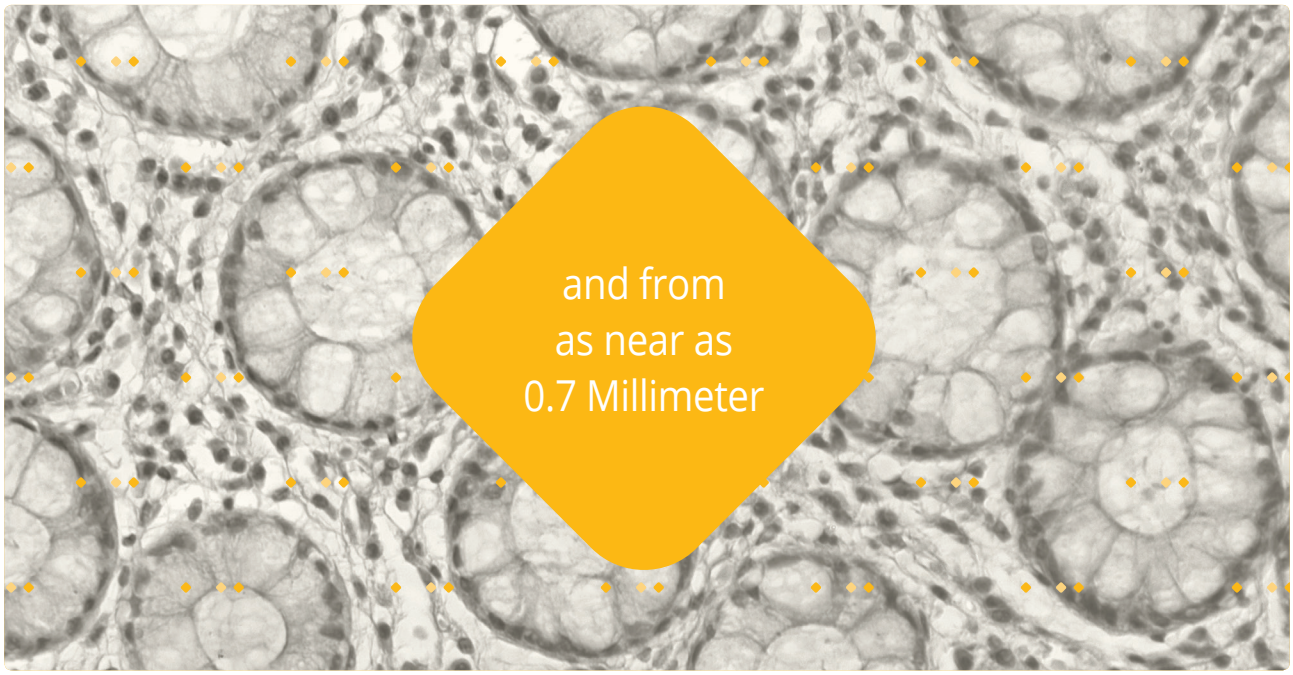
isotopia

small details create the big picture



Lutetium 177 (Lu-177) chloride:
A new challenger

NOW AVAILABLE

Isotopia – about us

Isotopia Molecular Imaging Ltd. ("Isotopia") is a unique nuclear pharmacy established in Israel since 2006, and has become an essential supplier for the growing field of nuclear medicine in Israel.

Isotopia, founded by a highly trained group of senior professionals, experienced in all aspects of radio-pharmacy operations, in collaboration with a group of Canadian investors.

Nowadays, Isotopia is taking steps for becoming a major worldwide supplier of Lu-177 to be used in the field of molecular radiotherapy.

Our aim is to supply Lu -177 according to costumers needs. By producing Lu-177 C.A and Lu-177 N.C.A, we can provide you both products according to your needs, tailor-made.

Timeline:

Nowadays, Isotopia can provide Lu – 177
Carrier-Added Research Grade

Key Advantages:

- Continuous supply of Lu-177 C.A guaranteed due to cooperation with various nuclear reactors.
- Availability- on a weekly basis all year round
- You choose your volume (fixed concentration)
- **V Shaped for minimum material loss**
- Each lot is tested for labeling efficiency

Ordering Process:

3 simple Steps: just define

1. The calibration day
2. The requested volume
3. The requested activity at calibration day

Lu

Get Lu 177 according to your needs

Properties:

Lutetium -177, half-life 6.73d, is a β- emitter at 498keV (78.6%) and 177 keV (12.2%) decaying into stable Hafnium-177. Lu-177 shows a major advantage in also emitting gamma rays at 208 keV (11.0%) and 113 keV (6.3%) which allows imaging with this therapeutic radionuclide. The mean path length is 0.7 mm.

Product Specifications:

Radionuclide	(^{177}Lu) Lutetium chloride solution
Half-life	6.65 days
Decay Mode	Beta decay
Appearance	Clear, colourless solution
Specific activity	> 1100 GBq\mg at *EOP
Concentration	40-50 GBq\mL
Chemical form	$LuCl_3$ in 0.05M HCl
Radionuclidic purity	>99% ^{177}Lu (<0.07% ^{177m}Lu at expiry)
Radiochemical purity	>99% as Lutetium chloride
Chemical purity	Cu < 1.0 µg/GBq Fe < 0.5 µg/GBq Pb < 0.5 µg/GBq Zn < 1.0 µg/GBq
pH	1-2
Packaging	Type I glass vial- V-shaped Type A non-returnable lead package with Poly (methyl methacrylate) insert
Bacterial Endotoxins	< 175 IU/V (V being the maximum volume to be injected) To be applied soon
Sterility	Autoclaved

*EOP = End of Production

TOS (Terms of Supply)

Irradiation time	Every week
Calibration	Monday to Thursday 12.00 am CET (Central European Time)
Shelf life:	10 days

isotopia

small details
create the big picture

Isotopia Molecular Imaging Ltd.
39 Alexander Yanai St. Segula Industrial Park
Petach Tikva 4927735, Israel

Tel: +972 3 913 0314
Fax: +972 3 930 0667

info@isotopia.co.il
isotopia.co.il