



Iotron Medical copper-67, in collaboration with Canadian Isotope Innovations

PHYSICAL DATA	
Element	Copper
Radionuclide	^{67}Cu
Half-Life	61.83 h
Decay Mode	Beta decay
Significant Emissions Beta	141 keV (mean energy)
Main gamma emissions	91/93 keV, 185 keV, 300 keV gamma Peaks
Chemical form	Cu^{2+} in aqueous Hydrochloric acid solution
Solvent	0.01M HCl
Activity Concentration	1-30 GBq/mL
Activity	1-15 GBq per vial
Volume per vial	< 500 μL
Primary packaging	1mL conical vial (Available for up to 2 GBq) 5 mL conical vial (Available for up to 15 GBq)
Secondary packaging	Type A package with lead insert (returnable)
Shelf- Life	240 h post calibration

RELEASE PARAMETERS		
Characteristics	Acceptance Criteria	Method
Appearance	Clear, colorless solution	Visual assessment
Specific activity (at EOP)	Clinical use > 5.55 GBq/ μg Pre-clinical > 1.85 GBq/ μg (for small batches only)	Based on radiolabeling with TETA
Radionuclidic purity	> 99.99%	Gamma Spectroscopy
pH	0.5-3	pH-strip
Elemental analysis		
Arsenic	< 1 $\mu\text{g}/\text{GBq}$	ICP-MS
Lead		
Selenium		
Mercury		
Copper		
Nickle		
Cobalt		
Cadmium		
Zinc		
Iron		
Other Metals		

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