

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

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

RELEASE PARAMETERS		
Characteristics	Acceptance Criteria	Method
<b>Appearance</b>	Clear, colorless solution	Visual assessment
<b>Specific activity (at EOP)</b>	> 5 GBq/ $\mu\text{g}$	Based on radiolabeling with TETA
<b>Radionuclidic purity</b>	> 99.99%	Gamma Spectroscopy
<b>pH</b>	0.5-3	pH-strip
<b>Elemental analysis</b>	< 1 $\mu\text{g}/\text{GBq}$	ICP-MS
Arsenic		
Lead		
Selenium		
Mercury		
Copper		
Nickle		
Cobalt		
Cadmium		
Zinc		
Iron		
Other Metals		

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