# $^{177}$Lutetium Chloride

## Sterile, carrier free [$^{177}$Lu]Lutetium Chloride solution

### Product Specifications

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| **Product** | [$^{177}$Lu]Lutetium Chloride solution (clear and colorless) |
| **Active ingredient** | [$^{177}$Lu]Lutetium Chloride, 1- 50 GBq |
| **Excipients** | Hydrochloric Acid (0.04 M) |
| **Half-life** | 6.65 days |
| **Decay energy** | $\beta^-$: $E_{max}$ = 498 keV<br>γ: 208 keV (10.3 % abundance) |
| **Chemical form** | [$^{177}$Lu]$LuCl_3$ in 0.04 M HCl solution |
| **Specific activity** | > 3000 GBq / mg at ART |
| **Activity** | as requested 1 - 50 GBq per vial (traceable to PTB and NIST)<br>(activity tolerance ± 10%) |
| **Volume** | as requested (0.1 - 3 mL in 3 mL V-vial or 0.1 - 10 mL in 10 mL flat bottom vial) |
| **Pre-calibration** | up to 4 days |
| **Reference date** | [$^{177}$Lu]Lutetium can be produced to meet specific customer requirements for calibration date. |
| **Expiry date** | Calibration date + 7 days |
| **Radiochemical purity** | > 99.0 % [$^{177}$Lu]Lutetium as $Lu^{3+}$ |
| **Radionuclide purity** | [$^{175}$Yb]Ytterbium ≤ 0.01 %<br>All other radionuclide impurities ≤ 0.01 % |
| **Chemical purity** | Fe: ≤ 0.5 µg / GBq<br>Cu: ≤ 1.0 µg / GBq<br>Zn: ≤ 1.0 µg / GBq<br>Pb: ≤ 0.5 µg / GBq<br>$^{176}$Yb: ≤ 0.1 µg / GBq |
| **pH** | 1 - 2 |
| **Packaging** | 3 mL V-glass vial, 10 mL P6-glass vial or 10R-glass vial. Closure with crimp cap and pharma-grade stopper |
| **Sterility** | Non-sterile (sterile available starting from Q1/Q2 2021) |
| **Delivery time** | Within 4 business days worldwide |


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