

# Astatine-211 Product Information

## Specifications

<b>Radioisotope</b>	<b>At-211</b>
<b>Half-Life/Daughter</b>	7.214 hours to polonium-211 and bismuth-207
<b>Decay</b>	<a href="#">Decay Radiation Information (NNDC)</a>
<b>Chemical Form</b>	Sodium astatide in NaCl solution (pH 6.5-7) - UW Absorbed onto 3-octanone impregnated column - TAMU
<b>Radionuclidic Purity</b>	>99% At-211 (based on gamma spectroscopy, evaluated quarterly)
<b>Radioisotopic Purity</b>	>99.5% (based on gamma spectroscopy, evaluated quarterly)- UW >99% At-211 (based on gamma spectroscopy)
<b>Radiochemical Purity</b>	≥85% (by radioTLC peak area) Na[At-211]At; other At-211 species may be present (e.g. [At-211]astatate) - UW >99% At-211 in 3-octanone - UW
<b>Production Route</b>	Alpha irradiation of bismuth metal
<b>Processing</b>	Wet chemistry isolation - UW Dissolution in Nitric acid and SPE with 3-octanone impregnated column - TAMU
<b>Primary Container</b>	Screw-cap vial in approved DOT package - UW SPE column in approved DOT package - TAMU
<b>Availability</b>	Special order
<b>Unit of Sale</b>	Millicuries
<b>Grade</b>	non-cGMP Grade

## Other Information

- University of Washington - UW
- Texas A&M University - TAMU