

# Cadmium-109 Product Information

## Specifications

<b>Radioisotope</b>	<b>Cd-109</b>
<b>Half-Life/Daughter</b>	461.4 days to silver-109
<b>Decay</b>	<a href="#">Decay Radiation Information (NNDC)</a>
<b>Chemical Form</b>	Cadmium (II) in 0.1 N HCl
<b>Available Specific Activity</b>	No carrier added, >50 Ci/g
<b>Activity Concentration</b>	>37 MBq/mL (>1 mCi/mL)
<b>Radionuclidic Purity</b>	>99% (excluding cadmium-113m and cadmium-115m)
<b>Radiochemical Purity</b>	>99% (by gamma spectroscopy)
<b>Production Route</b>	Proton bombardment of indium targets
<b>Processing</b>	Dissolution and ion exchange
<b>Primary Container</b>	Crimp-seal glass vial
<b>Availability</b>	Stock
<b>Unit of Sale</b>	Millicuries