

# Barium-133 Product Information

## Specifications

<b>Radioisotope</b>	<b>Ba-133</b>
<b>Half-life/Daughter</b>	10.551 years to caesium-133
<b>Decay</b>	<a href="#">Decay Radiation Information (NNDC)</a>
<b>Chemical Form</b>	Barium nitrate in dilute HNO <sub>3</sub>
<b>Available Specific Activity</b>	>629 GBq/g (>17 Ci/g)
<b>Activity Concentration</b>	>2.22 GBq/mL (>60 mCi/mL)
<b>Radionuclidic Purity</b>	>99.9%
<b>Production Route</b>	Neutron capture on enriched barium-132 at High Flux Isotope Reactor
<b>Processing</b>	Dissolution, inorganic processing, and ion exchange
<b>Primary Container</b>	Screw cap bottle
<b>Availability</b>	Special order
<b>Unit of Sale</b>	Millicuries