

# Manganese-52 Product Information

## Specifications

<b>Radioisotope</b>	<b>Mn-52</b>
<b>Half-Life/Daughter</b>	5.591 days to chromium-52
<b>Decay</b>	<a href="#">Decay Radiation Information (NNDC)</a>
<b>Chemical Form</b>	Manganese II in 0.1 M HCl (MnCl <sub>2</sub> )
<b>Available Specific Activity</b>	>0.02775 MBq/μg (>0.75 μCi/μg) - DOTA from UAB >0.9 MBq/μg (0.0025 mCi/μg) - DOTA from UW at shipment
<b>Activity Concentration</b>	> 0.074 MBq/μL (0.002 mCi/μL from UAB) > 0.037 MBq/μL (1 μCi/μL) from UW at shipment
<b>Radionuclidic Purity</b>	<1% Mn-54 (312 day half-life)
<b>Production Route</b>	Proton irradiation of natural Cr
<b>Processing</b>	Dissolution and extraction chromatography
<b>Primary Container</b>	Screw cap plastic vial
<b>Availability</b>	Special order
<b>Unit of Sale</b>	Millicuries

## Other Information

- CoA provided
- Minimum order of 37 MBq (1 mCi)
- Activity provided in ~ 500 μL (from UAB)
- Activity provided in ~1 mL with typical activity concentration of 5 mCi/mL (from UW)
- UAB - University of Alabama, Birmingham
- UW- University of Wisconsin