



## Technical Data Sheet

Tl-201 Bulk Radiochemical (DMF)

Thallos Chloride (Tl-201)

Half-Life: 73.1 hours

ORIGIN:	Denton, Texas
CHEMICAL FORM:	Thallos chloride in 0.9% Sodium Chloride Solution
PHYSICAL FORM:	Liquid
SPECIFICATIONS: (@ Calibration)	Radionuclidic Purity: Tl-201 $\geq 98.2\%$ Tl-200 $\leq 1.4\%$ Tl-202 $\leq 0.3\%$ Pb-203 $\leq 0.10\%$ Chemical Purity: Thallium $\leq 0.3 \mu\text{g}/\text{mCi}$ Iron $\leq 0.8 \mu\text{g}/\text{mCi}$ Copper $\leq 0.8 \mu\text{g}/\text{mCi}$ pH: 4.0 - 7.0 in 0.9% Sodium Chloride Identity Tl-201: Peaks at 135 keV, 167 keV Activity Concentration: $\geq 10\text{mCi}/\text{mL}$
NUCLEAR REACTION:	$^{203}\text{Tl}(p,3n)^{201}\text{Pb} \xrightarrow[9.33\text{h}]{-\beta^+} ^{201}\text{Tl}$
CALIBRATION:	Day of receipt @ 12:00 Noon CT
UNIT OF SALE:	millicurie
EXPIRATION:	7 days post manufacture
PRODUCTION SCHEDULE:	Daily
DELIVERY:	FOB Denton, Texas
ORDER DEADLINE:	5 days prior to day of shipment

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