

Please contact [NBSales@nnsa.doe.gov](mailto:NBSales@nnsa.doe.gov) with questions or to request a quote.

## Uranium and Thorium CRM's

CRM ID	Description (nominal values)	Size/Unit	Price
<b>Uranium/Thorium Ores</b>			
C001A (50g)	Phosphate Rock Ore (0.015% U)	50 g	\$680
C004 (100g)	Carnotite Ore (0.18% U <sub>3</sub> O <sub>8</sub> )	100 g	\$680
C005 (100g)	Carnotite Ore (0.11% U <sub>3</sub> O <sub>8</sub> )	100 g	\$680
C042A (1-4)	Pitchblende-Dunite Mixture (0.5, 1, 2, 4% g U/g)	4x100 g	\$1,490
C101A (50g)	Pitchblende Ore-Silica Mixture (1% U)	50 g	\$680
C102A (50g)	Pitchblende Ore-Silica Mixture (0.1% U)	50 g	\$680
C103A (50g)	Pitchblende Ore-Silica Mixture (0.05% U)	50 g	\$680
C104A (50g)	Pitchblende Ore-Silica Mixture (0.01% U)	50 g	\$680
C105A (50g)	Pitchblende Ore-Silica Mixture (0.001% U)	50 g	\$680
C106A (50g)	Monazite Sand-Silica Mixture (1% Th)	50 g	\$680
C107A (50g)	Monazite Sand-Silica Mixture (0.1% Th)	50 g	\$680
C108A (50g)	Monazite Sand-Silica Mixture (0.05% Th)	50 g	\$680
C109A (50g)	Monazite Sand-Silica Mixture (0.01% Th)	50 g	\$680
C110A (50g)	Monazite Sand-Silica Mixture (0.001% Th)	50 g	\$680
<b>Uranium Spikes, Metals, Oxides and Others</b>			
C111 (10g)	U-233 Spike, Solution (99.92% U-233) 5 mg U	5 mg U	\$3,950
C111A (10g)	U-233 Spike, Solution (99.49% U-233) 5 mg U	5 mg U	\$2,950
C112A (4g)	Uranium (Normal) Metal (0.99975 g U/g) 4 g	4 g	\$1,490
C112A (26g)	Uranium (Normal) Metal (0.99975 g U/g) 26 g	26 g	\$2,980
C113B	Uranium Hexafluoride (4.5% U-235)	~1.7 kg	\$59,420

CRM ID	Description (nominal values)	Size/Unit	Price
C115 (75g)	Uranium (Depleted) Metal (0.99977 g U/g) 75 g*	75 g U	\$2,980
C115 (1g)	Uranium (Depleted) Metal (0.99977 g U/g) 1 g	1 g U	\$1,490
C116A (1g)	Uranium (Enriched) Metal, 93%	1 g U	\$4,920
C123 (1-7)	Uranium (Normal) Oxide U <sub>3</sub> O <sub>8</sub> 18 Element Impurity	7x25 g	\$2,320
C125A (5g)	Uranium (Enriched) Oxide UO <sub>2</sub> (88% U; 4% U-235)	5.4 g	\$680
C129A (25g)	Uranium (Natural) Oxide U <sub>3</sub> O <sub>8</sub> (0.847 gU/g)	25 g	\$1,080
C129A (1g)	Uranium (Natural) Oxide U <sub>3</sub> O <sub>8</sub> (0.847 gU/g)	1 g U	\$780
C145 (20g)	Uranium (Normal) Assay Solution (10 mg U/g)	0.2 g U	\$780
C146	Uranium Gamma Spectrometry Set (20%, 53%, 93%)		\$64,290
<b>U-series Isotopic Standards</b>			
U0002 (1g)	Uranium (Depleted) Isotopic- U <sub>3</sub> O <sub>8</sub> , 0.02%	1 g U	\$1,290
U005A (10mg)	Uranium (Depleted)- U <sub>3</sub> O <sub>8</sub> , 0.5%	10 mg U	\$930
U010 (5mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 1%*	5 mg U	\$780
U015 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 1.5%	10 mg U	\$930
U020A (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 2%	10 mg U	\$930
U030A (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 3%	10 mg U	\$930
U045 (5mg)	Uranium (Enriched) Isotopic Solution, 4.5%	5 mg U	\$1,090
U100 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 10%	10 mg U	\$930
U150 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 15%	10 mg U	\$930
U200 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 20%	10 mg U	\$930
U350 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 35%	10 mg U	\$930
U500 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 50%	10 mg U	\$930
U630 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 63%	10 mg U	\$930

CRM ID	Description (nominal values)	Size/Unit	Price
U750 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 75%	10 mg U	\$930
U800 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 80%	10 mg U	\$930
U850 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 85%	10 mg U	\$930
U900 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 90%	10 mg U	\$930
U930D (5mg)	Uranium (Enriched) Isotopic Solution, 93%	5 mg U	\$1,010
U970 (10mg)	Uranium (Enriched) Isotopic- U <sub>3</sub> O <sub>8</sub> , 97%	10 mg U	\$930

Note: \* items have a limited quantity order confirmation will be assessed on a case by case situation

## Plutonium Certified Reference Materials Price Lists

CRM ID	Description (nominal values)	Size/Unit	Price
C128 (1mg)	Plutonium 239:242 1:1 Isotopic, Dry Nitrate	1 mg Pu	\$2,950
C130 (1mg)	Plutonium-242 Spike, Dry Nitrate (99.95% Pu-242)	1 mg Pu	\$1,810
C131 (1mg)	Plutonium-244 Spike, Dry Nitrate (97.9% Pu-244)	1 mg Pu	\$4,090

Due to the nature of the items listed below, a significant packaging and shipping cost will be incurred along with possible significant licensing issues. The NBL Program Office cannot guarantee their availability and orders are evaluated on a case-by-case basis per applicable regulations. Please contact the NBL Program Office at [NBLSales@nnsa.doe.gov](mailto:NBLSales@nnsa.doe.gov) to express interest in these items.

CRM ID	Description (nominal values)	Size/Unit	Price
C122 (0.9g)	Plutonium Oxide PuO <sub>2</sub> (87.79% Pu; 87% Pu-239)	0.9 g Pu	\$5,840
C126A (1g)	Plutonium Metal Standard (0.99960 g Pu/g; 94% Pu-239)	1 g Pu	\$10,990
C136 (250mg)	Plutonium Isotopic Standard, 12% Pu-240, sulfate	0.25 g Pu	\$5,840
C137 (250mg)	Plutonium Isotopic Standard, 18% Pu-240, sulfate	0.25 g Pu	\$5,840
C138 (250mg)	Plutonium Isotopic Standard, 8% Pu-240, sulfate	0.25 g Pu	\$5,840
C136 (10mg)	Plutonium Isotopic Standard, 12% Pu-240, sulfate	0.01 g Pu	\$4,120
C137 (10mg)	Plutonium Isotopic Standard, 18% Pu-240, sulfate	0.01 g Pu	\$4,120
C138 (10mg)	Plutonium Isotopic Standard, 8% Pu-240, sulfate	0.01 g Pu	\$4,120