



List of unavailable NMIJ CRMs & RMs

(As of Apr. 8, 2019)

Industrial Material CRMs

1011-b ~1015-b	Carbon Steel for EPMA, C: 0.1-0.7 %
1016-a	Fe-Cr Alloy (Cr 40 %)
5201-a	GaAs/AlAs Superlattice
5204-b	Ultrathin Silicon Dioxide Film
5208-a	Au/Ni/Cu Multi-layer Metal Film
5501-a	Reference Material for Modulus of Elasticity in Tensile Test of Plastics
8003-a	Fine Silicon Nitride Powder for Fine Ceramics (Direct Nitridation) I
8004-a	Fine Silicon Nitride Powder for Fine Ceramics (Direct Nitridation) II
8005-a	Fine Silicon Nitride Powder for Fine Ceramics (Liquid Interfacial Reaction)

Organic CRMs (High Purity Material)

4002-a	Benzene
4041-a	Vinyl chloride
4042-a	1,3-Butadiene
4048-a	Simazine
4049-a	Thiuram
4050-a	Thiobencarb

Organic CRMs (Standard Solution)

4201-a	<i>p,p'</i> -DDT in 2,2,4-Trimethylpentane
4202-a	<i>p,p'</i> -DDE in 2,2,4-Trimethylpentane
4206-a	PCB28 in 2,2,4-Trimethylpentane
4207-a	PCB153 in 2,2,4-Trimethylpentane
4208-a	PCB170 in 2,2,4-Trimethylpentane
4209-a	PCB194 in 2,2,4-Trimethylpentane
4210-a	PCB70 in 2,2,4-Trimethylpentane
4211-a	PCB105 in 2,2,4-Trimethylpentane
4214-a	<i>p,p'</i> -DDT, <i>p,p'</i> -DDE, γ -HCH in 2,2,4-Trimethylpentane
4216-a	Sulfur in Toluene (blank)
4217-a	Sulfur in Toluene - High Concentration

Organic CRMs (for Clinical Chemistry and Bioanalysis)

6203-a	Deoxyribonucleic Acid (DNA) Solutions for Quantitative Analysis
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Environmental CRMs (for Environment Analysis)

7201-a	Trace Elements in River Water (Natural Level)
7305-a	PCBs and Organochlorine Pesticides in Marine Sediment (Low Pollutant Concentrations)
7306-a	Organotins in Marine Sediment
7308-a	Polycyclic Aromatic Hydrocarbons and Toxic Elements in Tunnel Dust

7401-a	Chlorinated Pesticides in Dogfish Liver Oil
7902-a	PCBs in Insulation Oil (High Concentrations)
7903-a	PCBs in Insulation Oil (Low Concentrations)
7904-a	PCBs in Fuel Oil
7905-a	PCBs in Fuel Oil (PCB blank)

Environmental CRMs (for Food Analysis)

7403-a	Trace Elements, Arsenobetaine and Methylmercury in Swordfish Tissue
7507-a	Pesticides in Green Onion
7509-a	Pesticides in Soybean

Polymer CRMs

5002-a	Polystyrene 500
5003-a	Polycarbonate 46000
5502-a to 5505-a	RM for Dynamic Mechanical Properties of Plastics (PVC, PMMA, PE-UHMW, PEEK)
5506-a 5507-a	RM for Charpy Impact Strength of Plastics (PVC, PMMA)

CRMs for Green Procurement

8106-a	Heavy Metals (Cd, Cr, Pb) in ABS Resin Disk - High Concentration
8107-a	Bisphenol A in Polycarbonate
8113-a(02)	Heavy Metals (Cd, Cr, Hg, Pb) in ABS Resin - High Concentration Pellet
8116-a(02)	Heavy Metals (Cd, Cr, Hg, Pb) in ABS Resin - High Concentration Disk
8151-a	Polypropylene (Phthalate Esters in PP Resin Pellet)

CRMs for Thermophysical Properties

RM 1104-a	Glass-like Carbon (Thermal Expansivity Reference Material)
RM 1301-a	Titanium Nitride Thin film (Heat diffusion time across the thickness)

Gas CRMs

3401-a	Nitric Oxide
4404-a	SF ₆ , CF ₄ in N ₂ (0.5%)
4405-a	C ₂ F ₆ , CF ₄ in N ₂ (0.5%)
4406-a	SF ₆ , C ₂ F ₆ , CF ₄ in N ₂ (0.5%)