Nitric Acid AR Select® (ACS) For Trace Element Analysis



Material No.: 6623-46

Revision No.: 0

## **Product Specification**

Meets ACS Reagent Chemical Requirements

Test	Specification	
ACS - Assay (HNO₃)	68.0 - 70.0 %	
Appearance	Passes Test	
ACS - Color (APHA)	≤ 10	
ACS - Arsenic (As)	≤ 0.010 ppm	
ACS - Arsenic and Antimony (as As)	≤ 0.005 ppm	
ACS - Chloride (CI)	≤ 0.04 ppm	
ACS - Heavy Metals (as Pb)	≤ 0.05 ppm	
ACS - Residue after Ignition	≤ 5 ppm	
ACS - Sulfate (SO <sub>4</sub> )	≤ 0.4 ppm	
Determine by Flame Photometry ICP - Aluminum (AI)	≤ 50.0 ppb	
Determine by Flame Photometry ICP - Barium (Ba)	≤ 1.0 ppb	
Determine by Flame Photometry ICP - Beryllium (Be)	≤ 1.0 ppb	
Determine by Flame Photometry ICP - Bismuth (Bi)	≤ 10.0 ppb	
Determine by Flame Photometry ICP - Boron (B)	≤ 10.0 ppb	
Determine by Flame Photometry ICP - Cadmium (Cd)	≤ 1.0 ppb	
Determine by Flame Photometry ICP - * Calcium (Ca)	≤ 200.0 ppb	
Determine by Flame Photometry ICP - Chromium (Cr)	≤ 10.0 ppb	
Determine by Flame Photometry ICP - Cobalt (Co)	≤ 5.0 ppb	
Determine by Flame Photometry ICP - Copper (Cu)	≤ 1.0 ppb	
Determine by Flame Photometry ICP - Gallium (Ga)	≤ 20.0 ppb	
Determine by Flame Photometry ICP - Germanium (Ge)	≤ 10.0 ppb	
Determine by Flame Photometry ICP - Gold (Au)	≤ 10.0 ppb	
Determine by Flame Photometry ICP - Iron (Fe)	≤ 40.0 ppb	
Determine by Flame Photometry ICP - Lead (Pb)	≤ 1.0 ppb	
Determine by Flame Photometry ICP - Lithium (Li)	≤ 5.0 ppb	
Determine by Flame Photometry ICP - Magnesium (Mg)	≤ 10.0 ppb	
Determine by Flame Photometry ICP - Manganese (Mn)	≤ 1.0 ppb	
Determine by Flame Photometry ICP - Mercury (Hg)	≤ 1.0 ppb	

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Test	Specification	
Determine by Flame Photometry ICP - Molybdenum (Mo)	≤ 5.0 ppb	
Determine by Flame Photometry ICP - Nickel (Ni)	≤ 5.0 ppb	
Determine by Flame Photometry ICP - Potassium (K)	≤ 20.0 ppb	
Determine by Flame Photometry ICP - * Silicon (Si)	≤ 50.0 ppb	
Determine by Flame Photometry ICP - Silver (Ag)	≤ 5.0 ppb	
Determine by Flame Photometry ICP - * Sodium (Na)	≤ 500.0 ppb	
Determine by Flame Photometry ICP - Strontium (Sr)	≤ 1.0 ppb	
Determine by Flame Photometry ICP - Thallium (TI)	≤ 20.0 ppb	
Determine by Flame Photometry ICP - Tin (Sn)	≤ 10.0 ppb	
Determine by Flame Photometry ICP - Vanadium (V)	≤ 1.0 ppb	
Determine by Flame Photometry ICP - Zinc (Zn)	≤ 5.0 ppb	
Determine by Flame Photometry ICP - Zirconium (Zr)	≤ 10.0 ppb	

For Laboratory,Research,or Manufacturing Use Determine by Flame Photometry & ICP

Packaging Site: Paris Mfg Ctr & DC



<sup>\*</sup> May change over time due to extraction from glass container.