

# Specification Sheet Reagent 10™

## Detrex<sup>®</sup> Reagent 10™ 23°

23° Baume ACS Reagent Grade 10ppb Trace Metal Hydrochloric Acid

CAS No. 7647-01-0

<u>Parameter</u>	<u>Specification*</u>	<u>Detrex Typical</u>
Assay	36.5 – 38%	37.5%
Color (APHA)	10 APHA	< 10 APHA
Residue after Ignition	5 ppm	< 5 ppm
Bromide (Br)	0.005%	< 0.0025%
Sulfate (SO <sub>4</sub> )	1 ppm	< 0.3 ppm
Sulfite (SO <sub>3</sub> )	1 ppm	< 0.25 ppm
Free Chlorine (Cl)	1 ppm	< 1 ppm
Ammonium (NH <sub>4</sub> )	3 ppm	< 0.01 ppm
Arsenic (As)	0.01 ppm	< 0.001 ppm
Heavy Metals (by ICP-OES)	1 ppm	< 0.01 ppm
Iron (Fe)	0.2 ppm	< 0.02 ppm

\*Reagent Chemicals 11<sup>th</sup> Edition Specifications and Procedures

\*All analytical testing is performed in accordance with the monograph requirements or with validated alternative test methods.

<u>Trace Metal Element</u>	<u>Specification</u>	<u>Detrex Typical*</u>
Aluminum (Al)	10 ppb max	< 5 ppb
Antimony (Sb)	10 ppb max	< 5 ppb
Arsenic (As)	10 ppb max	< 5 ppb
Barium (Ba)	10 ppb max	< 5 ppb
Beryllium (Be)	10 ppb max	< 5 ppb
Bismuth (Bi)	10 ppb max	< 5 ppb
Boron (B)	10 ppb max	< 5 ppb
Cadmium (Cd)	10 ppb max	< 5 ppb
Calcium (Ca)	10 ppb max	< 5 ppb
Chromium (Cr)	10 ppb max	< 5 ppb
Cobalt (Co)	10 ppb max	< 5 ppb
Copper (Cu)	10 ppb max	< 5 ppb
Gallium (Ga)	10 ppb max	< 5 ppb
Germanium (Ge)	10 ppb max	< 5 ppb
Gold (Au)	10 ppb max	< 5 ppb
Indium (In)	10 ppb max	< 5 ppb
Iron (Fe)	10 ppb max	< 5 ppb
Lead (Pb)	10 ppb max	< 5 ppb
Lithium (Li)	10 ppb max	< 5 ppb
Magnesium (Mg)	10 ppb max	< 5 ppb
Manganese (Mn)	10 ppb max	< 5 ppb
Molybdenum (Mo)	10 ppb max	< 5 ppb
Nickel (Ni)	10 ppb max	< 5 ppb
Niobium (Nb)	10 ppb max	< 5 ppb
Platinum (Pt)	10 ppb max	< 5 ppb
Potassium (K)	10 ppb max	< 5 ppb
Silicon (Si)	10 ppb max	< 5 ppb
Silver (Ag)	10 ppb max	< 5 ppb
Sodium (Na)	10 ppb max	< 5 ppb
Strontium (Sr)	10 ppb max	< 5 ppb
Tantalum (Ta)	10 ppb max	< 5 ppb



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Thallium (Tl)	10 ppb max	< 5 ppb
Thorium (Th)	10 ppb max	< 5 ppb
Tin (Sn)	10 ppb max	< 5 ppb
Titanium (Ti)	10 ppb max	< 5 ppb
Vanadium (V)	10 ppb max	< 5 ppb
Zinc (Zn)	10 ppb max	< 5 ppb
Zirconium (Zr)	10 ppb max	< 5 ppb

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\*All testing completed with PerkinElmer ICP/MS