

Phosphoric Acid
ULTREX® II Ultrapure Reagent



Material No.: 6908-04
Batch No.: 0000086488
Manufactured Date: 2010/03/16
Retest Date: 2015/03/15

Certificate of Analysis

Test	Specification	Result
Appearance	Passes Test	PT
Assay (H ₃ PO ₄)(w/w), For Information Only	%	86
Density (g/mL) at 25°C, For Information Only		2
Trace Impurities – Arsenic (As), For Information Only	ppm	< 0.005
Trace Impurities – Boron (B), For Information Only	ppm	< 0.010
Nitrate (NO ₃), For Information Only	ppm	< 1
Trace Impurities – Silicon (Si), For Information Only	ppm	< 0.500
Sulfate (SO ₄), For Information Only	ppm	< 5
Trace Impurities – Aluminum (Al), For Information Only	ppb	< 10.0
Trace Impurities – Antimony (Sb), For Information Only	ppb	< 500.0
Trace Impurities – Barium (Ba), For Information Only	ppb	< 1.0
Trace Impurities – Beryllium (Be), For Information Only	ppb	< 5.0
Trace Impurities – Bismuth (Bi), For Information Only	ppb	< 1.0
Trace Impurities – Cadmium (Cd), For Information Only	ppb	< 1.0
Trace Impurities – Calcium (Ca), For Information Only	ppb	< 50.0
Trace Impurities – Cerium (Ce), For Information Only	ppb	< 0.5
Trace Impurities – Cesium (Cs), For Information Only	ppb	< 0.5
Trace Impurities – Chromium (Cr), For Information Only	ppb	< 20.0
Trace Impurities – Cobalt (Co), For Information Only	ppb	< 1.0
Trace Impurities – Copper (Cu), For Information Only	ppb	< 5.0
Trace Impurities – Dysprosium (Dy), For Information Only	ppb	< 1

Test	Specification	Result
Only		
Trace Impurities – Erbium (Er), For Information Only	ppb	< 1
Trace Impurities – Europium (Eu), For Information Only	ppb	< 1
Trace Impurities – Gadolinium (Gd), For Information Only	ppb	< 1.0
Only		
Trace Impurities – Gallium (Ga), For Information Only	ppb	< 0.5
Trace Impurities – Germanium (Ge), For Information Only	ppb	< 1.0
Only		
Trace Impurities – Gold (Au), For Information Only	ppb	< 1.0
Trace Impurities – Holmium (Ho), For Information Only	ppb	< 0.5
Trace Impurities – Indium (In), For Information Only	ppb	< 0.5
Trace Impurities – Iridium (Ir), For Information Only	ppb	< 1
Trace Impurities – Iron (Fe), For Information Only	ppb	< 100.0
Trace Impurities – Lanthanum (La), For Information Only	ppb	< 1
Only		
Trace Impurities – Lead (Pb), For Information Only	ppb	< 1.0
Trace Impurities – Lithium (Li), For Information Only	ppb	< 1.0
Trace Impurities – Lutetium (Lu), For Information Only	ppb	< 0.5
Trace Impurities – Magnesium (Mg), For Information Only	ppb	< 5.0
Only		
Trace Impurities – Manganese (Mn), For Information Only	ppb	< 5.0
Only		
Trace Impurities – Mercury (Hg), For Information Only	ppb	< 5.0
Trace Impurities – Molybdenum (Mo), For Information Only	ppb	< 5.0
Only		
Trace Impurities – Neodymium (Nd), For Information Only	ppb	< 0.5
Only		
Trace Impurities – Nickel (Ni), For Information Only	ppb	< 20.0
Trace Impurities – Niobium (Nb), For Information Only	ppb	< 5.0
Trace Impurities – Palladium (Pd), For Information Only	ppb	< 1.0
Trace Impurities – Platinum (Pt), For Information Only	ppb	< 1.0
Trace Impurities – Potassium (K), For Information Only	ppb	< 10.0
Trace Impurities – Praseodymium (Pr), For Information Only	ppb	< 0.5
Only		
Trace Impurities – Rhodium (Rh), For Information Only	ppb	< 0.5
Trace Impurities – Rubidium (Rb), For Information Only	ppb	< 0.5
Only		
Trace Impurities – Ruthenium (Ru), For Information	ppb	< 0.5

Test	Specification	Result
Only		
Trace Impurities – Samarium (Sm), For Information Only	ppb	< 0.5
Trace Impurities – Scandium (Sc), For Information Only	ppb	< 0.1
Trace Impurities – Silver (Ag), For Information Only	ppb	< 1.0
Trace Impurities – Sodium (Na), For Information Only	ppb	< 50.0
Trace Impurities – Strontium (Sr), For Information Only	ppb	< 1.0
Trace Impurities – Tantalum (Ta), For Information Only	ppb	< 5.0
Trace Impurities – Terbium (Tb), For Information Only	ppb	< 1.0
Trace Impurities – Thallium (Tl), For Information Only	ppb	< 0.5
Trace Impurities – Thorium (Th), For Information Only	ppb	< 0.5
Trace Impurities – Thulium (Tm), For Information Only	ppb	< 0.5
Trace Impurities – Tin (Sn), For Information Only	ppb	< 2.0
Trace Impurities – Titanium (Ti), For Information Only	ppb	< 10.0
Trace Impurities – Tungsten (W), For Information Only	ppb	< 5.0
Trace Impurities – Uranium (U), For Information Only	ppb	< 0.5
Trace Impurities – Vanadium (V), For Information Only	ppb	< 1.0
Trace Impurities – Ytterbium (Yb), For Information Only	ppb	< 0.5
Trace Impurities – Yttrium (Y), For Information Only	ppb	< 0.5
Trace Impurities – Zinc (Zn), For Information Only	ppb	< 10.0
Trace Impurities – Zirconium (Zr), For Information Only	ppb	< 5.0

For Laboratory, Research or Manufacturing Use
Certificate Provided Reports Actual Lot Analysis

Country of Origin: CH
Packaging Site: Paris Mfg Ctr & DC



Phillipsburg, NJ 9001:2008, 14001:2004
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 17025:2005
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008, 17025:2005
 Panoli, India 9001:2008



Richard M Siberski
 Vice President Global Quality