

		CHA056			
Packaged	Product:				
		NITRIC	ACID 70% SEMI GRADE 2 (59	JULB drum)	
		1			
	# 30190				
Chemical	Product:	N3812			
		NITRIC	ACID SEMI GRADE 2 (5901b	drum)	
Test			Target/UOM	Range	Result
APPEARAN	CE AND CO	LOR	CLEAR COLORLESS LIQUID		PASSES TEST
			APPEARANCE		
	Sample ID				
	Tested	01/20/23			
	Tester Recorded	SNEL 01/20/23			
COLOR (AP		01/20/23	10 MAX		0 APHA
	114)		NUMBERICAL		VALTA
	Sample ID		Nombernove		
	Tested	01/20/23			
	Tester	SNEL			
	Recorded	01/20/23			
Arsenic (As			10 PPB MAX		< 0.1 PPB
			PPB		
	Sample ID				
	Tested	01/20/23			
	Tester	SNEL			
	Recorded	01/20/23			
Barium (Ba)			10 PPB MAX		< 0.05PPB
			PPB		
	Sample ID				
	Tested	01/20/23			
	Tester Recorded	SNEL 01/20/23			
Beryllium (E		01/20/23	10 PPB MAX		< 0.06 PPB
Berymun (B	b e)		PPB		0.001115
	Sample ID		110		
	Tested	01/20/23			
	Tester	SNEL			
	Recorded	01/20/23			
Bismuth (Bi			10 PPB MAX		< 0.02 PPB
			PPB		
	Sample ID				
	Tested	01/20/23			
	Tester	SNEL			
	Recorded	01/20/23			
Boron (B)			10 PPB MAX		< 0.3 PPB
	.		PPB		
	Sample ID	01/00/00			
	Tested	01/20/23			
	Tester Recorded	SNEL 01/20/23			
	i iecolueu	01/20/20			



Calcium (Ca)		10 PPB MAX PPB	< 2 PPB
Sample IE Tested Tester Recorded Chromium (Cr)	01/20/23 SNEL	10 РРВ МАХ РРВ	0.07 PPB
Sample IE Tested Tester Recorded Cobalt (Co)	01/20/23 SNEL	10 PPB MAX PPB	< 0.05 PPB
Sample IE Tested Tester Recorded	01/20/23 SNEL		
Copper (Cu) Sample ID)	10 PPB MAX PPB	< 0.05 PPB
Tested Tester Recorded Gallium (Ga)	01/20/23 SNEL 01/20/23	10 PPB MAX	< 0.02 PPB
Sample ID Tested Tester	01/20/23 SNEL	PPB	
Recorded Lead (Pb) Sample ID		10 PPB MAX PPB	< 0.05 PPB
Tested Tester Recorded	01/20/23 SNEL		
Magnesium (Mg) Sample IE Tested) 01/20/23	10 PPB MAX PPB	< 0.05 PPB
Tester Recorded Manganese (Mn)	SNEL	10 PPB MAX PPB	< 0.05 PPB
Sample IE Tested Tester Recorded	01/20/23 SNEL		



Molybdenui	m (Mo)		10 PPB MAX PPB	< 0.05 PPB
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
Nickel (Ni)			10 PPB MAX PPB	< 0.1 PPB
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
Niobium (N	o)		10 PPB MAX	< 0.02 PPB
			PPB	
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
Silver (Ag)			10 PPB MAX	< 0.05 PPB
			PPB	
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
Strontium (Sr)		10 PPB MAX	< 0.02 PPB
			PPB	
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
Tantalum (T	a)		10 PPB MAX PPB	< 0.02 PPB
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
Thalliium (T			10 PPB MAX	< 0.02 PPB
, i			PPB	
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
Tin (Sn)			10 PPB MAX	< 0.05 PPB
			PPB	
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
)				



Titanium (Ti)		10 PPB MAX	< 0.3 PPB
		PPB	
Sample ID			
Tested	01/20/23		
Tester	SNEL		
Recorded	01/20/23		
Vanadium (V)	• • •	10 PPB MAX	< 0.02 PPB
		PPB	
Sample ID			
Tested	01/20/23		
Tester	SNEL		
Recorded	01/20/23	10 PPB MAX	< 2 PPB
Zinc (Zn)			< 2 PPB
		PPB	
Sample ID			
Tested	01/20/23		
Tester	SNEL		
Recorded	01/20/23		
Zirconium (Zr)		10 PPB MAX	< 0.02 PPB
		PPB	
Sample ID			
Tested	01/20/23		
Tester	SNEL		
Recorded	01/20/23		
Phosphate (PO4)		200 PPB MAX	< 25 PPB
		PPB	
Sample ID			
Tested	01/20/23		
Tester	SNEL		
Recorded	01/20/23		
Aluminum (Al)	01/20/20	5 PPB MAX	< 0.3 PPB
/		PPB	
Sample ID			
Tested	01/00/00		
	01/20/23		
Tester	SNEL		
Recorded	01/20/23		
Antimony (Sb)		5 PPB MAX	< 0.05 PPB
		PPB	
Sample ID			
Tested	01/20/23		
Tester	SNEL		
Recorded	01/20/23		
Cadmium (Cd)		5 PPB MAX	< 0.05 PPB
		PPB	
Sample ID			
Tested	01/20/23		
Tester	SNEL		
Recorded	01/20/23		
	-		



Germanium	(Ge)		5 PPB MAX	< 0.07 PPB
			PPB	
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
Gold (Au)			5 PPB MAX	< 0.2 PPB
			PPB	< 0.2 I I D
	0		FFD	
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
Iron (Fe)			5 PPB MAX	0.4 PPB
			PPB	
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
Lithium (Li)			5 PPB MAX	< 0.05 PPB
			PPB	
	Sample ID			
	Tested	01/20/23		
	Tester	SNEL		
	Recorded	01/20/23		
Potassium (5 PPB MAX	< 0.6 PPB
	/		PPB	
			FFD	
	Sample ID		PPD	
	Sample ID	01/20/22	FFD	
	Tested	01/20/23	ΓΓD	
	Tested Tester	SNEL	FFD	
	Tested Tester Recorded			
	Tested Tester Recorded	SNEL	5 PPB MAX	< 1 PPB
Sodium (Na)	Tested Tester Recorded	SNEL		< 1 PPB
Sodium (Na)	Tested Tester Recorded Sample ID	SNEL 01/20/23	5 PPB MAX	< 1 PPB
Sodium (Na)	Tested Tester Recorded Sample ID Tested	SNEL 01/20/23 01/20/23	5 PPB MAX	< 1 PPB
Sodium (Na)	Tested Tester Recorded Sample ID Tested Tester	SNEL 01/20/23 01/20/23 SNEL	5 PPB MAX	< 1 PPB
Sodium (Na)	Tested Tester Recorded Sample ID Tested Tester Recorded	SNEL 01/20/23 01/20/23 SNEL 01/20/23	5 PPB MAX PPB	
Sodium (Na)	Tested Tester Recorded Sample ID Tested Tester Recorded	SNEL 01/20/23 01/20/23 SNEL 01/20/23	5 РРВ МАХ РРВ 500 РРВ МАХ	< 1 PPB
Sodium (Na) Sulfate (SO4	Tested Tester Recorded Sample ID Tested Tester Recorded	SNEL 01/20/23 01/20/23 SNEL 01/20/23	5 PPB MAX PPB	
Sodium (Na) Sulfate (SO4	Tested Tester Recorded Sample ID Tested Tester Recorded D Sample ID	SNEL 01/20/23 01/20/23 SNEL 01/20/23	5 РРВ МАХ РРВ 500 РРВ МАХ	
Sodium (Na) Sulfate (SO4	Tested Tester Recorded Sample ID Tested Tester Recorded	SNEL 01/20/23 01/20/23 SNEL 01/20/23	5 РРВ МАХ РРВ 500 РРВ МАХ	
Sodium (Na) Sulfate (SO4	Tested Tester Recorded Sample ID Tested Tester Recorded Sample ID Tested Tested Tester	SNEL 01/20/23 01/20/23 SNEL 01/20/23	5 РРВ МАХ РРВ 500 РРВ МАХ	
Sodium (Na) Sulfate (SO4	Tested Tester Recorded Sample ID Tested Tester Recorded Sample ID Sample ID Tested	SNEL 01/20/23 01/20/23 SNEL 01/20/23	5 РРВ МАХ РРВ 500 РРВ МАХ	
Sodium (Na) Sulfate (SO4	Tested Tester Recorded Sample ID Tested Tester Recorded Sample ID Tested Tester Recorded	SNEL 01/20/23 SNEL 01/20/23 01/20/23 SNEL 01/20/23	5 РРВ МАХ РРВ 500 РРВ МАХ	
Sodium (Na) Sulfate (SO4	Tested Tester Recorded Sample ID Tested Tester Recorded Sample ID Tested Tester Recorded	SNEL 01/20/23 SNEL 01/20/23 01/20/23 SNEL 01/20/23	5 PPB MAX PPB 500 PPB MAX PPB	< 25 PPB
Sodium (Na) Sulfate (SO4 Assay Nitric	Tested Tester Recorded Sample ID Tested Tester Recorded Sample ID Tested Tester Recorded Acid (HNO3	SNEL 01/20/23 SNEL 01/20/23 01/20/23 SNEL 01/20/23	5 PPB MAX PPB 500 PPB MAX PPB 69.0 - 70.0%	< 25 PPB
Sodium (Na) Sulfate (SO4 Assay Nitric	Tested Tester Recorded Sample ID Tested Tester Recorded Sample ID Tested Tester Recorded Acid (HNO3	SNEL 01/20/23 SNEL 01/20/23 01/20/23 SNEL 01/20/23 SNEL 01/20/23	5 PPB MAX PPB 500 PPB MAX PPB 69.0 - 70.0%	< 25 PPB
Sodium (Na) Sulfate (SO4 Assay Nitric	Tested Tester Recorded Sample ID Tested Tester Recorded Sample ID Tested Tester Recorded Acid (HNO3 Sample ID Tested	SNEL 01/20/23 SNEL 01/20/23 SNEL 01/20/23 SNEL 01/20/23	5 PPB MAX PPB 500 PPB MAX PPB 69.0 - 70.0%	< 25 PPB
Sodium (Na) Sulfate (SO4 Assay Nitric	Tested Tester Recorded Sample ID Tested Tester Recorded Sample ID Tested Tester Recorded Acid (HNO3	SNEL 01/20/23 SNEL 01/20/23 01/20/23 SNEL 01/20/23 SNEL 01/20/23	5 PPB MAX PPB 500 PPB MAX PPB 69.0 - 70.0%	< 25 PPB



Customer PO # :

Chloride (Cl)	80 PPB MAX PPB	< 40 PPB	
Sample ID			
Tested	01/20/23		
Tester	SNEL		
Recorded	01/20/23		
Made 01/19/23			

This is to certify that the product listed above has been prepared according to the agreed upon formulation. The solutions producer has a Quality Management System which governs each step of the manufacturing process to insure the production of a consistent product. Traceability from the producer's lot numbers to the original manufacturer's lot number is maintained. Certificates of Analysis for the raw materials used to prepare this product are available upon request.

The weights and/or volumes used to prepare this product are N.I.S.T. Traceable. All balances used in the preparation of product are calibrated daily against N.I.S.T. Traceable weights. The balances are maintained and serviced on a regular basis by an outside certified company. All volumetric glassware used is N.I.S.T. Traceable and certified as meeting Class A specifications.

Unless otherwise agreed to, all chemicals used in the preparation of this product are Reagent ACS grade.

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Quality Manager