CERTIFICATE OF ANALYSIS

BASELINE® Sulfuric Acid

1A PRODUCT NUMBER: S020301

LOT NUMBER: 3213120

ASSAY (H₂SO₄, w/w): 95%

3 Li < 0.5	2A 4 Be < 0.01	average evaporate	of three alided	quots subsa	ampled from ulting residue	n three sam e is reconsti	ples repres tuted in a s	sentative of mall volume	concentration the lot. The of SEASTA O or better clo	samples a .R™BASEL	are slowly INE® 2%	3A	4A	5A	6A	7A	
11 Na < 20	12 Mg < 0.5								injected into lue is subtrac		IS. Values	13 AI < 10					
19 K < 30	20 Ca < 20	21 Sc < 0.1	22 Ti < 5	23 V < 0.05	24 Cr < 0.05	25 Mn < 0.05	26 Fe < 2	27 Co < 0.01	28 Ni < 5	29 Cu < 1	30 Zn < 10	31 Ga < 0.1	32 Ge < 50	33 As* < 500	34 Se* < 500		
37 Rb < 0.05	38 Sr < 0.1	39 Y < 0.01	40 Z r < 0.5	41 Nb < 0.01	42 Mo < 0.5			45 Rh < 0.01	46 Pd < 10	47 Ag < 0.05	48 Cd < 0.01	49 In < 0.01	50 Sn < 0.5	51 Sb < 0.01	52 Te < 0.05		
55 Cs < 0.01	56 Ba < 0.2	57 La < 0.05	72 Hf < 0.01	73 Ta < 20	74 W < 0.05				78 Pt < 10		80 Hg* < 50	81 TI < 0.01	82 Pb < 0.1	83 Bi < 0.01			

ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

(1) (2) (2) Ele (3) (3) Cor

(4)

(1) Atomic Number (2) Elemental Symbol

(3) Concentration (mean in ppt)

(4) 1 Standard Deviation (N=3)

	58	Се	59 Pr	60 Nd		62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu
	<	0.2	< 0.01	< 0.05		< 0.01	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
า															
	90	Th		92 U											
1	< (0.01		< 0.01											
					311										

H₂SO₄ (93 - 98%): Properties Molar Mass: 98.07g/mol

Density: 1.84 g/ml Molarity: 18 moles/litre Normality: 36 moles/litre Release Date:

May 28, 2014

Expiry Date:

May 28, 2017



B M & X Dr. B. McKelvey
QA/QC Manager



Product Integrity:

Based on extensive testing results, SEASTAR CHEMICALS INC have found our products, unopened and sealed, maintain the certified integrity, or product quality, for a minimum of three years under the following conditions:

- Stored at room temperature, maximum range 15°C (59°F) to 25°C (77°F).
- Minimum exposure to light.
- For limited time, storage/transport temperature range 5°C (41°F) to 35°C (95°F)

Upon opening the product, the product's integrity will depend on proper handling and exposure to contaminants. The product has been bottled under CLASS 100 clean room conditions, to maintain the certified quality it should be used under these conditions. Furthermore to reduce trace metal contamination, the inner pack of plastic bags and bottle should be opened under CLASS 100 particle conditions to maintain the integrity of the product. The use of plastic gloves, hair net and a clean room suit is also advised.

Safety:

PRIOR to opening or storing this product be sure to consult the Material Safety Data Sheet (MSDS) Section 7 Handling and Storage to ensure safe storage and handling with regards to this hazardous material. This information must be understood prior to its use or storage.

SAFETY HANDLING NOTES: Consult your MSDS, PRIOR to handling these materials. Use proper safety apparel according to the recommendations of the MSDS. Exposure controls and personal protection should include: a properly functioning fume hood, protection for eyes (safety glasses), hands (chemically compatible gloves), feet (chemically compatible boots) and exposed skin (splash protection and a chemically compatible apron). All of these items must conform to local/regional/national regulatory requirements.

Dr. B. McKelvey QA/QC Manager

B MªZ

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