## CERTIFICATE OF ANALYSIS BASELINE<sup>®</sup> Sulfuric Acid

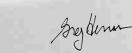
1A	F	PRODUC		IBER: S	6020301		LOT NUMBER: 3216092 AS					SAY (H <sub>2</sub> SO <sub>4</sub> , w/w): 96%						
3 Li < 1	2A Most elements are determined by high resolution ICP-MS using sample preconcentration. The results are an average of three aliquots subsampled from three samples representative of the lot. The samples are slowly evaporated to dryness. The resulting residue is reconstituted in a small volume of SEASTAR <sup>™</sup> BASELINE <sup>®</sup> 2% Nitric Acid / 2% Hydrogen Peroxide. For volatile elements (indicated by *), the acid samples are diluted then directly injected into the ICP-MS. Values below 3 times the standard deviation of the blank are shown with '<', no 3A 4A 5A 6A 7A																	
<b>11 Na</b> < 20	<b>12 Mg</b> < 1		ue is subtra 4B		6B	ow 3 times t	ne standar	a deviation o	of the blank	are snown v 1B	2B	<b>13 AI</b> < 10						
<b>19 К</b> < 40	<b>20 C</b> a < 50	<b>21 Sc</b> < 0.05					<b>26 Fe</b> < 10	<b>27 Co</b> < 0.02	28 Ni < 5			<b>31 G</b> a < 0.05	<b>32 Ge</b> < 5	<b>33 As</b> * < 500	<b>34 Se</b> * < 500			
<b>37 Rb</b> < 0.05	<b>38 Sr</b> < 0.3	<b>39 Y</b> < 0.1	<b>40 Zr</b> < 5	<b>41 Nb</b> < 0.01	<b>42 Mo</b> < 0.5			<b>45 Rh</b> < 0.01	<b>46 Pd</b> < 0.5	<b>47 Ag</b> < 0.05	<b>48 Cd</b> < 0.5	<b>49 In</b> < 0.01	<b>50 Sn</b> < 0.5	<b>51 Sb</b> < 0.2	<b>52 Te</b> < 0.5			
<b>55 Cs</b> < 0.01	<b>56 B</b> a < 0.5	<b>57 La</b> < 0.2	<b>72 Hf</b> < 0.1	<b>73 Ta</b> < 0.01	<b>74 W</b> < 0.5				<b>78 Pt</b> < 0.5		<b>80 Hg</b> * < 50	81 TI < 0.01	<b>82 Pb</b> < 0.1	<b>83 Bi</b> < 0.02				
				-														

## ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

KEY (1) Atomic Number	58	Ce	59 Pr	60	Nd	14	62 Sm	63 EL	64 Gd	65 Tb	66 Dy	67 Ho	68 Er		70 Yb	71 Lu
(1) (2) (2) Elemental Symbol	< 0.	.7	< 0.05	< 0.	.2		< 0.01	< 0.01	< 0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
(3) (3) Concentration (mean																
	90	Th		92	U											
(4) 1 Standard Deviation	< 0.	01		< 0.0	02				and the second				1			
(N=3)						1111										

H2SO4 (93 - 98%): Properties Molar Mass: 98.07g/mol Density: 1.84 g/ml Molarity: 18 moles/litre Normality: 36 moles/litre

BASELINE



Greg Henson QA & RA Manager Release Date: Expiry Date: June 02, 2017 June 02, 2020

**)))(()** SEASTAR CHEMICALS



## SEASTAR<sup>™</sup>'s Product Integrity Guidelines:

We have found our products, unopened and sealed, maintain the certified integrity, or product quality, for their stated certification period under the following conditions:

- Store at room temperature, maximum range 15°C (59°F) to 25°C (77°F).
- Avoid exposure to sunlight or ultraviolet light sources.
- Open in a 'particle free' environment. SEASTAR recommends a HEPA or ULPA particle filtered trace metal clean room. Open product should be handled under Class 100 or ISO 5 clean room or better conditions.

Once opened, product integrity will depend on proper handling and exposure to contaminants. To reduce trace metal contamination, the inner pack of plastic bags and bottle should be opened under Class 100 or ISO 5 clean room or better conditions to maintain the integrity of the product. The use of plastic gloves, hair net and a clean room suit is also advised.

## Safety Guidelines:

PRIOR to opening or storing this product be sure to consult the Safety Data Sheet (SDS) to ensure safe storage and handling with regards to this hazardous material. This information must be read and understood prior to use or storage.

SAFETY HANDLING NOTES: Consult the SDS PRIOR to handling this product. Use proper safety apparel according to the recommendations of the SDS. 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.

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Greg Henson QA & RA Manager

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