CERTIFICATE OF ANALYSIS BASELINE[®] Water

1A	

PRODUCT NUMBER: S020901

LOT NUMBER: 9211120

3 Li < 1 11 Na < 10	2A 4 Be < 1 12 Mg < 5	average evaporate Nitric Acio For volati	of three al ed to dryne d / 2% Hydi le elements	iquots subs ess. The rest rogen Perox s (indicated	by high reso ampled from ulting residu ide. Operati by *), the sar f the blank ar 6B	n three san e is reconst ons are cor nples are di	nples repre tituted in a s iducted und luted then c	sentative of small volume ler Class 100 lirectly inject	the lot. The of SEAST/ or better cl ed into the l	e samples AR [™] BASEI ean-room c	are slowly LINE [®] 2% conditions.	3A 5 B < 20 13 AI < 10	4A	5A	6A	7A	
19 К < 10	20 Ca < 10	21 Sc < 1	22 Ti < 5	23 V < 1	24 Cr < 10	25 Mn < 1	26 Fe < 10	27 Co < 1	28 Ni < 10	29 Cu < 5	30 Zn < 5	<mark>31 G</mark> a < 1	32 Ge < 1	33 As* < 10	34 Se * < 50		
37 Rb < 1	<mark>38 Sr</mark> < 1	39 Y < 1	40 Z r < 1	41 Nb < 1	42 Mo < 1		44 Ru < 1	45 Rh < 1	46 Pd < 5	47 Ag < 5	48 Cd < 1	49 In < 1	50 Sn < 5	51 Sb < 10	52 Te < 1		12
55 Cs < 0.1	56 Ba < 1	57 La < 0.1	72 Hf < 0.1	73 Ta < 5	74 W < 5	75 Re < 1			78 Pt < 1	79 Au < 10	80 Hg * <10	<mark>81 TI</mark> < 0.1	82 Pb < 1	83 Bi < 0.1			

ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

	58 Ce	59 Pr	60 Nd	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu
<u>KEY</u> (1) Atomic Number	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
(1) (2) (2) Elemental Symbol					1.000								
(3) (3) Concentration (mean	90 Th		92 U										
(4) in ppt)	< 0.1		< 0.1										
(4) 1 Standard Deviation					_								
(N=3)				1									

Maximum Specification	Actual Value				
10 APHA	< 10				
1 ppb	< 1				
1 ppb	< 1				
1 ppb	< 1				
	Specification 10 APHA 1 ppb 1 ppb				

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December 16, 2011

December 16, 2014

Release Date:

Expiry Date:

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.

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Dr. B. McKelvey QA/QC Manager

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