CERTIFICATE OF ANALYSIS

BASELINE® Nitric Acid

1A		PRODU	CT NUN	/IBER: \$	S02010 ²		LOT NUMBER: 1217044				AS	ASSAY (HNO ₃ , w/w): 68%						
3 Li < 0.01	2A 4 Be < 0.01	average evaporate Nitric Aci	of three aliced to drynes d / 2% Hyd	quots subsass. The resurred	by high resonant plant by high residuration with the second properties of the second properties	n three sam e is reconst platile elem	nples repres ituted in a s ents (indica	sentative of mall volume ted by *), the	the lot. The of SEASTA ne acid sam	e samples a AR™ BASEL ples are dil	are slowly INE® 2% uted then	3A 5 B < 10	4A	5A	6A	7A		
< 0.1	< 0.5	3B	ue is subtrac	5B	6B	7B		8		1B	2B	< 0.5						
19 K < 0.2	20 Ca < 10	21 Sc < 0.01	22 Ti < 0.5	23 V < 0.01	24 Cr < 1	25 M n < 0.05		27 Co	28 Ni < 5	29 C u < 0.5	30 Zn < 0.2	31 Ga < 0.01	32 Ge < 0.01	33 As < 1	34 Se < 10			
37 Rtd < 0.01	38 Sr < 0.01	39 Y < 0.01	40 Zr < 0.01	41 Nb < 0.01	42 M o < 0.1	1	44 Ru < 0.01	45 Rh < 0.01	46 Pd < 1	47 Ag < 0.01	48 C d < 0.01	49 In < 0.01	50 Sn < 0.1	51 Sb < 0.01	52 Te < 0.01		ν,	
55 C s < 0.01	56 Ba < 0.01	57 La < 0.01	72 Hf < 0.01	73 Ta < 0.01	74 W < 0.02	75 Re < 0.01			78 Pt < 1	79 Au < 1	80 Hg < 20	81 TI < 0.01	82 Pb < 0.05	83 Bi < 0.01				

ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

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(1) (2)	(2)	Е
(3)	(3)	С
(4)		

KEY (1) Atomic Number

(2) Elemental Symbol(3) Concentration (mean

in ppt)
(4) 1 Standard Deviation
(N=3)

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
< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
90 Th		92 U											
< 0.01	ь `	< 0.01	1.5		_								
L 4													



HNO₃ (67 - 70%): Properties

Molar Mass: 63.01g/mol

Density: 1.41 g/ml

Molarity: 16 moles/litre

Normality: 16 moles/litre

Release Date: May 12, 2017

Expiry Date: May 12, 2020

Greg Henson QA & RA Manager





SEASTAR™'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.

Greg Henson

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QA & RA Manager

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