CERTIFICATE OF ANALYSIS

BASELINE® Nitric Acid

1A	F	PRODUC	CT NUM	IBER: S	S02010 1		LOT N	UMBER	R: 12110	13	ASS	SAY (HN	103, w/v	w): 69%	6	[
3 Li 4	2A 4 Be < 1	average evaporate Nitric Acid	of three alided to drynes	quots subs ss. The resu ogen Perox	ampled fror ulting residu ide. Operati	olution ICP- n three sam le is reconst ions are con	ples represituted in a s ducted und	sentative of mall volume er Class 10	the lot. The of SEASTA or better cl	e samples a AR™ BASEL ean-room c	are slowly INE® 2% onditions.	3A 5 B < 10	4A	5A	6A	7A	
11 Na 1	1 2 Mg < 5					cid samples blank are sho 7B					IS. Values	13 AI < 20					
19 K 2	20 Ca < 5	21 Sc < 1	22 Ti < 5	23 V < 0.5	24 Cr < 10	25 Mn < 1	26 Fe < 10	27 Co	28 Ni < 5	29 C u < 5	30 Zn < 1	31 Ga < 0.1	32 G e < 0.1	33 As < 10	34 Se < 5		
37 Rb 3	38 Sr < 1	39 Y < 0.1	40 Z r < 0.5	41 Nb < 1	42 M c < 1		44 Ru < 1	45 Rh < 1	46 Pd < 5	47 Ag < 0.5	48 Cd < 0.1	49 In < 0.1	50 Sm < 5	51 Sb < 5	52 Te < 0.5		
55 Cs 5	56 Ba < 1	57 La < 0.05	72 Hf < 0.05	73 Ta	74 W < 1	75 Re < 0.1			78 Pt < 1	79 Au < 1	80 Hg < 10	81 TI < 0.05	82 Pb < 0.5	83 Bi < 0.05			

ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

KEY	(1) Atomic Number
(1) (2)	(2) Elemental Symbol
(3)	(3) Concentration (mean
(4)	in ppt)
	(3)

(4) 1 Standard Deviation (N=3)

58 Ce 5	59 Pr	60 Nd	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu
< 0.05	< 0.05	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
90 Th		92 U										
< 0.05		< 0.01					-					

HNO₃ (67 - 70%): Properties

Molar Mass: 63.01g/mol

Density: 1.41 g/ml

Molarity: 16 moles/litre

Normality: 16 moles/litre

Release Date: February 3, 2012 Expiry Date: February 3, 2015





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

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10005 McDonald Park Road, Sidney, BC, Canada V8L 5Y2

phone: (250) 655-5880 fax: (250) 655-5888

toll free: 1 (800) 663-2330 (within Canada & U.S. only) Email: seastar.technicals.upport@seastarchemicals.com

Web: www.seastarchemicals.com