CERTIFICATE OF ANALYSIS

BASELINE® Hydrobromic Acid

PROD	UCT NUMBER: S	6020801 LC	80 A	ASSAY (HBr, w/w): 48%					
3 Li 4 Be aver evap	ge of three aliquots subs prated to dryness, the resu Acid. Operations are con	ampled from three samp Iting residue is reconstitute aducted under Class 100	MS using sample preconcentration bles representative of the lot. The lot in a small volume of 2% SEAS particle or better clean-room countries then directly injected into the ICF	e samples are slowly TAR™ BASELINE® onditions. For volatile	3A 4A 5 B < 1000	5A 6A	7A		
			", no blank value is subtracted.	1B 2B	13 AI < 10				
19 K 20 Ca 21 < 2 < 20 < 0.		24 Cr 25 Mn 2 < 5 < 0.5	26 Fe 27 Co 28 Ni < 30 < 0.5 < 30	29 Cu 30 Zn < 5	31 Ga < 0.1				
37 Rb 38 Sr 39 < 0.01 < 0.05 < 0.			44 Ru 45 Rh 46 Pd < 0.01 < 0.01 < 0.1	47 Ag 48 Cd < 0.05	49 In 50 Sn < 0.01 < 1	51 Sb 52 Te < 50 < 0.01			
55 Cs 56 Ba 57 < 0.05 < 0.1 < 0.		74 W 75 Re < 0.5 < 0.01	78 Pt	79 Au < 1	81 TI 82 Pb < 0.1 < 0.5	83 Bi < 0.5			

ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

11/1	. (' /	ALUI
(1) (2)	(2)	Eler
(3)	(3)	Cor
(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
n	110													
n	90 Th		92 U											
	< 0.01		< 0.01	- 4-7-1										



Molar Mass: 80.91g/mol
Density: 1.5 g/ml
Molarity: 9 moles/litre
Normality: 9 moles/litre

B M = N Dr. B. McKelvey

QA/QC Manager

Release Date: May 14, 2014 Expiry Date: May 14, 2017

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

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