CERTIFICATE OF ANALYSIS

BASELINE® Hydrobromic Acid

1A	PRODUCT NUMBER: S020801 LOT NUMBER: 8207042 ASSAY (HBr, w/w): 49%													[
3 Li < 1	2A 4 Be < 5	average evaporat	of three alided	quots subsass, the resul	by magnetic ampled from ting residue ducted und	n three sam is reconstitu	ples repres	sentative of all volume of	the lot. The	e samples a ΓAR [™] BA S	are slowly SELINE®	3A 5 B 1000	4A	5A	6A	7A	
11 Na < 20	12 Mg < 5	elements	(indicated	by *), the a	cid samples ne blank are 6B	are diluted	then direc	tly injected	into the ICP			13 AI < 50					
19 K < 10	20 Ca < 50	21 Sc < 1	22 Ti < 10	23 V < 1	24 Cr < 10	25 M n < 2	26 Fe < 50	27 Co	28 Ni < 10	29 C u < 5	30 Z n < 5	31 Ga < 10					
37 Rb	38 Sr < 1	39 Y < 1	40 Zr < 1	41 Nb < 1	42 Mo < 20		44 Ru < 10	45 Rh < 1	46 Pd < 10	47 Ag < 2	48 Cd < 1	49 In < 1	50 Sn < 20	51 Sb < 50	52 Te < 10		
55 Cs < 0.05	56 Ba	57 La < 0.05	72 Hf < 0.05	73 Ta < 20	74 W < 10	75 Re < 5			78 Pt < 1	79 Au < 1		81 TI < 0.1	82 Pb < 1	83 Bi < 0.1			

ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

<u>KEY</u>	(1) Atomic Number
(1) (2)	(2) Elemental Symbol
(3)	(3) Concentration (mean
(4)	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
	< 0.05	< 0.05	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n													
_	90 Th		92 U										
П	< 0.05		< 0.01										

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

Release Date: October 1, 2009 Expiry Date: October 1, 2012





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

10005 McDonald Park Road, Sidney, BC, Canada V8L 3S8

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