

# C E R T I F I C A T E   O F   A N A L Y S I S

## BASELINE<sup>®</sup> Ammonia Solution

1A		PRODUCT NUMBER: 07										LOT NUMBER: 7203060										ASSAY: 21% (as NH <sub>3</sub> )											
2A		<p>Most elements are determined by magnetic sector ICP-MS using sample preconcentration. The results are an average of three aliquots subsampled from three samples representative of the lot. The samples are slowly evaporated to dryness, the resulting residue is reconstituted in a small volume of 2% SEASTAR™ BASELINE® Nitric Acid. Operations are conducted under Class 100 or better clean-room conditions. For volatile elements (indicated by *), the acid samples are diluted then directly injected into the ICP-MS. Values below 3 times the standard deviation of the blank are shown with "&lt;", no blank value is</p>										3A		4A		5A		6A		7A													
3 Li <1	4 Be <5																																
11 Na <10	12 Mg <5																																
		3B		4B		5B		6B		7B		8		1B		2B																	
19 K <20	20 Ca <20	21 Sc <2	22 Ti <10	23 V <2	24 Cr <20	25 Mn <10	26 Fe <20	27 Co <1	28 Ni <20	29 Cu <10	30 Zn <10	31 Ga <1	32 Ge <1	33 As <10	34 Se <50																		
37 Rb <1	38 Sr <1	39 Y <1	40 Zr <1	41 Nb <20	42 Mo <1		44 Ru <10	45 Rh <1	46 Pd <20	47 Ag <1	48 Cd <1	49 In <1	50 Sn <20	51 Sb <20	52 Te <10																		
55 Cs <0.1	56 Ba <10	57 La <0.1	72 Hf <0.1		74 W <10	75 Re <0.1			78 Pt <1	79 Au <5		81 Tl <1	82 Pb <2	83 Bi <0.1																			
		ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)																															

**ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)**

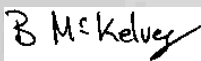
### KEY

- |     |     |                                 |
|-----|-----|---------------------------------|
| (1) | (2) | (1) Atomic Number               |
| (3) |     | (2) Elemental Symbol            |
| (4) |     | (3) Concentration (mean in ppt) |
|     |     | (4) 1 Standard Deviation n=3)   |

58 Ce <0.1	59 Pr <0.1	60 Nd <0.1		62 Sm <0.1	63 Eu <0.1	64 Gd <0.1	65 Tb <0.1	66 Dy <0.1	67 Ho <0.1	68 Er <0.1	69 Tm <0.1	70 Yb <0.1	71 Lu <0.1
90 Th <0.1		92 U <0.1											

Release Date: July 14, 2003  
Expiry Date: July 14, 2006



  
 Dr. B. McKelvey  
 QA/QC Manager



# SEASTAR CHEMICALS INC

A MEMBER of the Axys Group

## 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.

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.

A further note 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.

Appropriate safety precautions must be taken as well as wearing the required safety apparel. A properly functioning fumehood, protection for eyes, hands, feet and exposed skin must also be worn. All of these items must conform to local/regional/national regulatory requirements.

Dr. B. McKelvey  
QA/QC Manager

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