## CERTIFICATE OF ANALYSIS

# **BASELINE®** Hydrochloric Acid

1A						_									
100	PRODUCT NUMBER: 04			LOT NUMBER: 4203030						ASSAY: 34%					
2A 3 Li 4 Be <1 <5	4 Be Most elements are determined by magnetic sector ICP-MS using sample preconcentration. The results are											5A	6A	7A	
11 Na 12 Mg <10 <5	volatile elemen	nts (indicated by the standard dev	*), the acid sa	amples are	diluted the	n directly in	jected into	the ICP-MS.		13 AI <20					
19 K 20 Ca		Ti 23 V	24 Cr 2	25 <b>M</b> n <2	<b>26</b> Fe <20	27 Co <3	28 Ni <10	<b>29 C</b> u <5	<b>30 Zn</b> <5	31 Ga <1		<b>33 As</b> <20	<b>34 Se</b> <50		
37 Rb 38 Sr <1 <1	<b>39</b> Y <b>40</b> < 0.1	Zr 41 Nb	<b>42 Mo</b> <10		<b>44</b> Ru <10	45 Rh <1	<b>46</b> Pd <10	<b>47 Ag</b> <5	<b>48 Cd</b> <0.1	<b>49 In</b> <0.1	<b>50</b> Sn <20	<b>51 Sb</b> <50	<b>52 Te</b> <10		
55 Cs 56 Ba	57 La 72 <0.05 <0.	Hf 73 Ta .05 <20	<b>74 W</b> 7	<b>75 Re</b> <0.1			78 Pt <1	<b>79 Au</b> <10	<b>80</b> *Hg <100	<b>81 TI</b> <0.1	82 Pb <1	<b>83 Bi</b> <0.05			

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

#### KEY

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

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

BASELINE

B Mc Kelvey
Dr. B. McKelvey
QA/QC Manager

Release Date: August 5, 2003 Expiry Date: August 5, 2006



## **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.

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