CERTIFICATE OF ANALYSIS BASELINE[®] Hydrochloric Acid

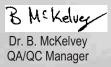
PRODUCT NUMBER: BA-04						LOT NUMBER: 4205050						ASSAY (HCI, w/w): 34%						
U U	average evaporat Nitric Aci elements	of three ali ed to drynes id. Operations (indicated	quots subs ss, the resul ons are con by *), the a	ampled from ting residue ducted unc cid sample	n three san is reconstit ler Class 10 s are diluted	nples repres uted in a sm 00 particle of 1 then direc	sentative of all volume c or better cle tly injected	the lot. The of 2% SEAS ean-room co into the ICF	e samples a TAR [™] BAS onditions. F	are slowly SELINE[®] or volatile	3A 5 B <10 13 AI <10	4A	5A	6A	7A			
	3B	4B	5B	6B	7B		8		1B 29 Cu <3	2B 30 Zn <5	F		33 As <20	34 Se <50				
38 Sr <1	39 Y <0.1	40 Z r <1	41 Nb <1	42 Mo <5		44 Ru <10	45 Rh <1	<mark>46 P</mark> d <10	47 Ag <5	48 Cd <0.1	<mark>49 In</mark> <0.1	<mark>50 Sn</mark> <10	51 Sb <20	52 Te <1		5		
56 Ba	57 La <0.05			74 W <5				78 Pt		-	<mark>81 Т</mark> І <0.1	82 Pb <1	83 Bi					
	2A 4 Be <5 12 Mg <5 20 Ca <10 38 Sr <1 56 Ba	2AMost eler average evaporat Nitric Aci elements times the 3B20Ca <10	2A4Be <54Be <5	2A4Most elements are determined laverage of three aliquots substaverage of three aliquots are completed at the substaverage of three aliquots are completed at the substaverage of th	2AMost elements are determined by magnetic average of three aliquots subsampled from evaporated to dryness, the resulting residue Nitric Acid. Operations are conducted und elements (indicated by *), the acid sampled times the standard deviation of the blank are 3B12 Mg elements (indicated by *), the acid sampled times the standard deviation of the blank are 3B20 Ca 21 Sc21 Sc22 Ti <1023 V24 Cr <1020 Ca <10	2AMost elements are determined by magnetic sector ICP average of three aliquots subsampled from three same evaporated to dryness, the resulting residue is reconstitu Nitric Acid. Operations are conducted under Class 10 elements (indicated by *), the acid samples are diluted times the standard deviation of the blank are shown with 3B 4B 5B 6B 7B20Ca21Sc22Ti23V24Cr25Mn304B5B6B7B20Ca21Sc22Ti23V24Cr25Mn31402110<1	2AMost elements are determined by magnetic sector ICP-MS using saverage of three aliquots subsampled from three samples represevaporated to dryness, the resulting residue is reconstituted in a sm Nitric Acid. Operations are conducted under Class 100 particle of elements (indicated by *), the acid samples are diluted then direct times the standard deviation of the blank are shown with "<", no bland 3B20Ca21Sc22Ti23V24Cr25Mn26Fe20Ca21Sc22Ti23V24Cr25Mn26Fe<10	2AMost elements are determined by magnetic sector ICP-MS using sample pre- average of three aliquots subsampled from three samples representative of evaporated to dryness, the resulting residue is reconstituted in a small volume of Nitric Acid. Operations are conducted under Class 100 particle or better clas elements (indicated by *), the acid samples are diluted then directly injected times the standard deviation of the blank are shown with "<", no blank value is su 3B12Mg elements (indicated by *), the acid samples are diluted then directly injected times the standard deviation of the blank are shown with "<", no blank value is su 3B20Ca21Sc22Ti23V24Cr25Mn26Fe27Co<10	2AMost elements are determined by magnetic sector ICP-MS using sample preconcentration average of three aliquots subsampled from three samples representative of the lot. The evaporated to dryness, the resulting residue is reconstituted in a small volume of 2% SEAS. Nitric Acid. Operations are conducted under Class 100 particle or better clean-room or elements (indicated by *), the acid samples are diluted then directly injected into the ICP times the standard deviation of the blank are shown with "<", no blank value is subtracted.12Mg<5	2A Most elements are determined by magnetic sector ICP-MS using sample preconcentration. The result average of three aliquots subsampled from three samples representative of the lot. The samples evaporated to dryness, the resulting residue is reconstituted in a small volume of 2% SEASTAR [™] BAS 12 Mg <5	2A 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 particle 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 "<", no blank value is subtracted.	2A 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 [®] 3A 12 Mg 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 "<", no blank value is subtracted.	A 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 ^M BASELINE* $3A 4A$ 4Be <5	2AMost 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 ^M BASELINE3A 4A 5A4Be <5 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 ^M BASELINE 5 B12Mg <5 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 "<", no blank value is subtracted.	2AMost 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 [®] 3A4A5A6A12Mg 	2A 		

ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)

KEY (1) Atomic Number (1) (2) (2) Elemental Symbol	<0.05	59 Pr <0.05	60 Nd <0.05	62 Sm <0.01	63 Eu <0.01	64 Gd <0.01	65 Tb <0.01	66 Dy <0.01	<mark>67 Ho</mark> <0.01	<mark>68 Er</mark> <0.01	69 Tm <0.01	70 Yb <0.01	71 Lu <0.01
(3) (4) (4) (3) Concentration (mean in ppt) (4) 1 Standard Deviation (N=3)	90 Th <0.05		92 U <0.01										

Release Date: September 15, 2005 Expiry Date: September 15, 2008







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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