

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

## BASELINE® Hydrogen Peroxide

1A		PRODUCT NUMBER: S021001										LOT NUMBER: 17217040										ASSAY (H <sub>2</sub> O <sub>2</sub> , w/w): 31%													
		2A																				3A		4A		5A		6A		7A					
3	Li	4	Be											5		B																			
< 0.2		< 5												< 20																					
11	Na	12	Mg											13		Al																			
< 5		< 2												< 10																					
				3B		4B		5B		6B		7B		8		1B		2B																	
19	K	20	Ca	21	Sc	22	Ti	23	V	24	Cr	25	Mn	26	Fe	27	Co	28	Ni	29	Cu	30	Zn	31	Ga	32	Ge	33	As	34	Se				
< 2		< 20		< 0.5		< 1		< 0.5		< 5		< 0.5		< 10		< 0.5		< 5		< 1		< 5		< 5		< 5		< 20							
37	Rb	38	Sr	39	Y	40	Zr	41	Nb	42	Mo			44	Ru	45	Rh	46	Pd	47	Ag	48	Cd	49	In	50	Sn	51	Sb	52	Te				
< 2		< 0.1		< 0.1		< 0.2		< 0.2		< 2				< 1		< 0.1		< 0.2		< 0.1		< 2		< 0.5		< 5		< 1		< 1					
55	Cs	56	Ba	57	La	72	Hf	73	Ta	74	W	75	Re					78	Pt	79	Au	80	Hg	81	Tl	82	Pb	83	Bi						
< 1		< 0.5		< 0.2		< 0.1		< 0.1		< 0.2		< 0.1						< 20		< 5		< 20		< 0.1		< 0.1		< 0.5							
						ALL VALUES ARE REPORTED IN PARTS PER TRILLION (PPT)																													

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KEY		(1) Atomic Number	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
(1) (2)	(2) Elemental Symbol		< 0.1		< 0.1		< 1			< 0.1		< 0.2		< 0.2		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1	
(3)	(3) Concentration (mean in ppt)																												
(4)	(4) 1 Standard Deviation (N=3)		90 Th < 0.05				92 U < 0.05																						

Elements are determined by magnetic sector ICP-MS. The results are an average of three samples representative of the lot.

Release Date: June 02, 2017  
Expiry Date: June 02, 2020



H<sub>2</sub>O<sub>2</sub> (30 - 32%): Properties  
Molar Mass: 34.01g/mol  
Density: 1.13 g/ml  
Molarity: 10 moles/litre  
Normality: 10 moles/litre

Greg Henson  
QA & RA Manager





## **SEASTAR™'s Product Integrity Guidelines:**

We have found our products, unopened and sealed, maintain the certified integrity, or product quality, for their stated certification period under the following conditions:

- Store at room temperature, maximum range 15°C (59°F) to 25°C (77°F).
- Avoid exposure to sunlight or ultraviolet light sources.
- Open in a 'particle free' environment. SEASTAR recommends a HEPA or ULPA particle filtered trace metal clean room. Open product should be handled under Class 100 or ISO 5 clean room or better conditions.

Once opened, product integrity will depend on proper handling and exposure to contaminants. To reduce trace metal contamination, the inner pack of plastic bags and bottle should be opened under Class 100 or ISO 5 clean room or better conditions to maintain the integrity of the product. The use of plastic gloves, hair net and a clean room suit is also advised.

## **Safety Guidelines:**

PRIOR to opening or storing this product be sure to consult the Safety Data Sheet (SDS) to ensure safe storage and handling with regards to this hazardous material. This information must be read and understood prior to use or storage.

SAFETY HANDLING NOTES: Consult the SDS PRIOR to handling this product. Use proper safety apparel according to the recommendations of the SDS. 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.

A handwritten signature in black ink, appearing to read "Greg Henson", is positioned above the printed name.

Greg Henson  
QA & RA Manager

2061 Henry Avenue West, Sidney, BC, Canada V8L 5Z6  
Phone: 1-250-655-5880 Fax: 1-250-655-5888  
Toll free: 1-800-663-2330 (North America only)  
Email: [seastar.technicalsupport@seastarchemicals.com](mailto:seastar.technicalsupport@seastarchemicals.com)  
Web: [www.seastarchemicals.com](http://www.seastarchemicals.com)