



## Certificate of Analysis

<b>Product Number:</b>	<b>S021001</b>	<b>CAS Number:</b>	7722-84-1
<b>Product Description:</b>	Hydrogen Peroxide	<b>Molecular Weight:</b>	34.01 g/mol
<b>Product Grade:</b>	BASELINE®	<b>Molecular Formula:</b>	H <sub>2</sub> O <sub>2</sub>
<b>Lot Number:</b>	17225102	<b>Density:</b>	1.11 g/mL
<b>Release Date:</b>	04/24/2026 (mm/dd/yyyy)	<b>Molarity:</b>	10 moles/litre
<b>Expiration Date:</b>	04/24/2029 (mm/dd/yyyy)	<b>Normality:</b>	10 moles/litre

### Analytical Data

Analyte	Specification	Actual Value	Analyte	Specification	Actual Value
Assay (H <sub>2</sub> O <sub>2</sub> )	30 - 32% w/w	31% w/w	Molybdenum (Mo)	10 ppt	< 1 ppt
Aluminum (Al)	50 ppt	< 20 ppt	Neodymium (Nd)	1 ppt	< 0.05 ppt
Antimony (Sb)	10 ppt	< 1 ppt	Nickel (Ni)	20 ppt	< 5 ppt
Arsenic (As)	100 ppt	< 5 ppt	Niobium (Nb)	10 ppt	< 0.1 ppt
Barium (Ba)	10 ppt	< 0.5 ppt	Palladium (Pd)	10 ppt	< 0.1 ppt
Beryllium (Be)	10 ppt	< 1 ppt	Potassium (K)	20 ppt	< 5 ppt
Bismuth (Bi)	10 ppt	< 0.05 ppt	Praseodymium (Pr)	1 ppt	< 0.05 ppt
Boron (B)	100 ppt	< 50 ppt	Rhenium (Re)	10 ppt	< 0.5 ppt
Cadmium (Cd)	10 ppt	< 1 ppt	Rhodium (Rh)	10 ppt	< 0.05 ppt
Calcium (Ca)	100 ppt	< 50 ppt	Rubidium (Rb)	10 ppt	< 1 ppt
Cerium (Ce)	1 ppt	< 0.05 ppt	Ruthenium (Ru)	10 ppt	< 0.5 ppt
Cesium (Cs)	1 ppt	< 0.5 ppt	Samarium (Sm)	1 ppt	< 0.1 ppt
Chromium (Cr)	10 ppt	< 5 ppt	Scandium (Sc)	10 ppt	< 0.2 ppt
Cobalt (Co)	10 ppt	< 0.2 ppt	Selenium (Se)	100 ppt	< 20 ppt
Copper (Cu)	10 ppt	< 2 ppt	Silver (Ag)	10 ppt	< 0.5 ppt
Dysprosium (Dy)	1 ppt	< 0.05 ppt	Sodium (Na)	50 ppt	< 10 ppt
Erbium (Er)	1 ppt	< 0.05 ppt	Strontium (Sr)	10 ppt	< 0.2 ppt
Europium (Eu)	1 ppt	< 0.05 ppt	Tantalum (Ta)	10 ppt	< 0.05 ppt
Gadolinium (Gd)	1 ppt	< 0.05 ppt	Tellurium (Te)	1 ppt	< 1 ppt
Gallium (Ga)	10 ppt	< 1 ppt	Terbium (Tb)	1 ppt	< 0.01 ppt
Germanium (Ge)	10 ppt	< 10 ppt	Thallium (Tl)	1 ppt	< 1 ppt
Gold (Au)	10 ppt	< 0.2 ppt	Thorium (Th)	1 ppt	< 0.01 ppt
Hafnium (Hf)	1 ppt	< 0.05 ppt	Thulium (Tm)	1 ppt	< 0.02 ppt
Holmium (Ho)	1 ppt	< 0.02 ppt	Tin (Sn)	50 ppt	< 10 ppt
Indium (In)	1 ppt	< 0.2 ppt	Titanium (Ti)	20 ppt	< 10 ppt
Iron (Fe)	20 ppt	< 5 ppt	Tungsten (W)	20 ppt	< 10 ppt
Lanthanum (La)	1 ppt	< 0.2 ppt	Uranium (U)	1 ppt	< 0.05 ppt
Lead (Pb)	10 ppt	< 1 ppt	Vanadium (V)	10 ppt	< 0.2 ppt
Lithium (Li)	10 ppt	< 0.05 ppt	Ytterbium (Yb)	1 ppt	< 0.05 ppt
Lutetium (Lu)	1 ppt	< 0.05 ppt	Yttrium (Y)	1 ppt	< 0.05 ppt
Magnesium (Mg)	20 ppt	< 5 ppt	Zinc (Zn)	50 ppt	< 20 ppt
Manganese (Mn)	10 ppt	< 0.5 ppt	Zirconium (Zr)	10 ppt	< 0.1 ppt
Mercury (Hg)	50 ppt	< 5 ppt			

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

Greg Henson  
QA & RA Manager

For terms and conditions of use, please see page 2.

## Terms and Conditions of Use

### 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.

### 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.

**For SEASTAR™'s Product Expiration Policy and Product Permeation FAQ, please see our website.**

### Notes:

Reported density, molarity and normality values reflect published literature and are characteristic of the product's assay range. If you require an accurate density, molarity, or normality for the product that you have purchased, you will have to perform the measurement. Bottles within a given lot have small assay variations.

### Definitions:

- **Actual value:** the measured value in a particular lot analysis.
- **Analyte:** the substance being measured.
- **Specification:** the maximum certified value of an analyte, unless otherwise specified.
- **Unit(s):** **ppm** – part per million or µg (microgram) of analyte per gram of solution.  
**ppb** – part per billion or ng (nanogram) of analyte per gram of solution.  
**ppt** – part per trillion or pg (picogram) of analyte per gram of solution.



Greg Henson  
QA & RA Manager