H2 Analytics
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Report #: H2AR-260409-1b

Laboratory Report

Introduction

This report summarizes the testing of a prepackaged hydrogen water product manufactured by AOP Technologies S.A.S, Bogota, Colombia. The water contains dissolved hydrogen gas (H_2) infused into it using electrolysis.

Tests requested: Dissolved H_2 using gas chromatography

Product Description

Name: Premium Water Enriched with Hydrogen Brand: Hydrogen Lot #: AOP-00134 Expiration date: September 11 2026

Sanitary Registry No.: RSA-0026929-2023

Six test samples were received for testing on 4/7/20256. The container is a flexible aluminum pouch with a volume of 500 mL. The test samples were received in good condition with no fluid leakage detected.

Materials & Methods

Laboratory elevation: 864 meters (0.91 atm); all measurements adjusted to sea level where applicable.
Gas Chromatograph: SRI 8610C; column: Hayesep-D 6M; column/oven temp: 60°C; detector: tungsten-rhenium TCD; carrier gas: nitrogen (99.999%)
GC Test Method: Static headspace analysis (HS-GC)
Equilibration Vortexer: 2400 rpm; digital timer, generic
Calibration: performed on the day of testing using calibration gas; PQL: 50 µg/L; LOD: 20 µg/L

For each test run, a pouch was opened, and a 200 mL sample was poured into a clean 250 mL glass beaker. A 2000 uL sample of the water was immediately drawn using a gas-tight syringe and injected into the headspace vial. The test sample was then placed into a vortexer for one minute followed by a two-minute rest period to permit the dissolved H_2 in the sample to equilibrate with the headspace. After equilibration, a 1000 uL sample of the headspace was drawn using a gas-tight syringe and injected into the GC for analysis. Three tests were conducted, results recorded, and the mean and standard deviation were calculated. The results were averaged and the dose was calculated based on the dissolved H_2 concentration and water volume.

Attachment 1 shows a sample chromatogram.

Results

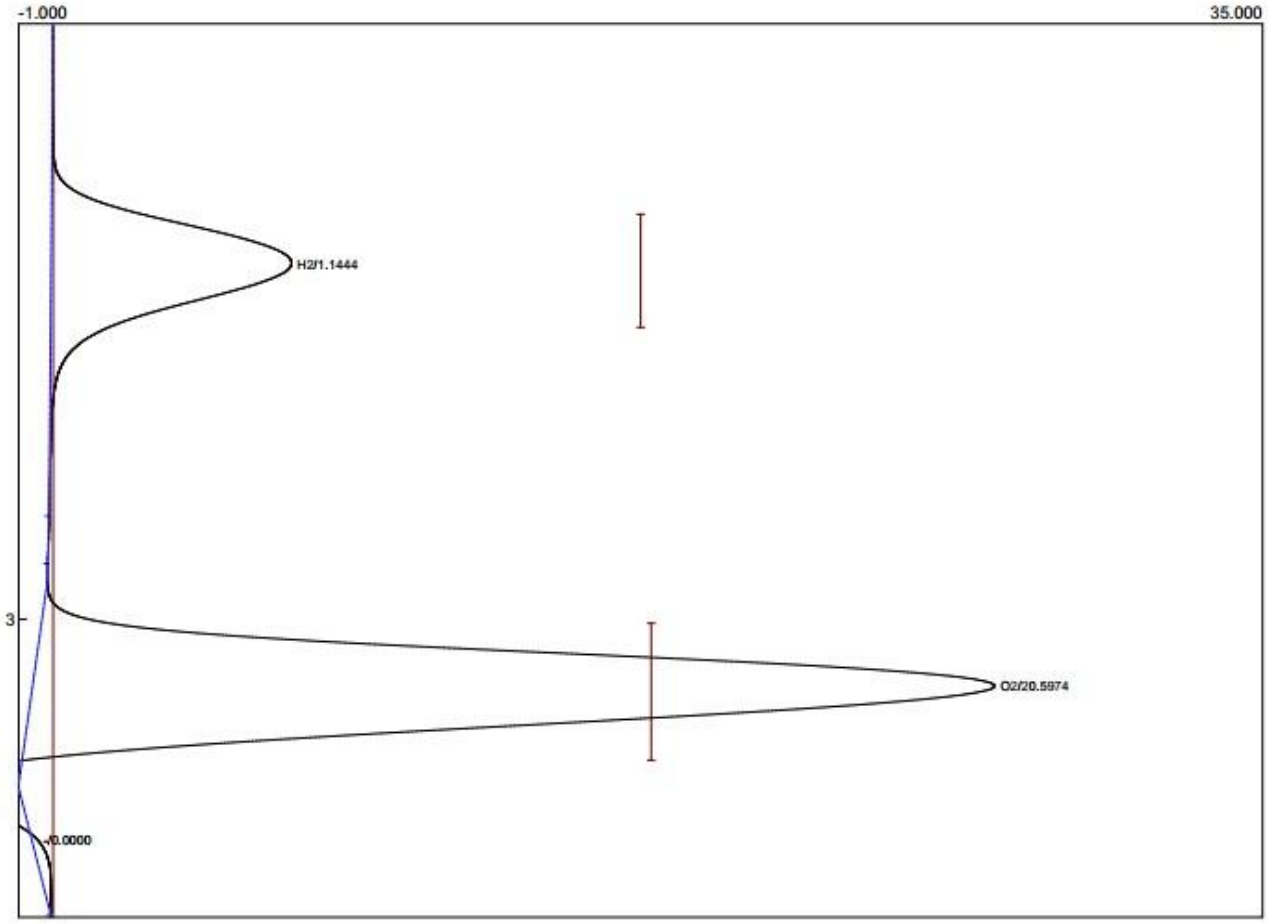
Dissolved H_2: Mean – 1.16 mg/L (1160 ppb) SD - 0.08 H_2 Dose: 0.58 mg

Approved By: Randy S. Sharpe Title: Director of Testing Report Date: 4/9/2026

Attachment 1

Hydrogen Water Testing & Certification

Lab name: H2 Analytics
Client: AOP Technologies
Client ID: H2A-1086
Collected: 4/8/26
Holding time: 180 sec
Analysis date: 04/08/2026 09:12:14
Method: Static HS Analysis (GCHS)
Lab ID: HNV
Description: TCD CH1 60C
Column: Hayesep-D 6 meters 60C
Carrier: N2 @ 20psi (20 mL/min)
Integration: Peak sens=95.0 Base sens=90.0 Min area= 1.00 Standard= 1.000 Sample= 1.000 Tangents=off
Data file: AOPH2Premium04..CHR ()
Sample: H2 Premium Water
Operator: rs
Comments: DH2 Test Run
QC batch: N/A



Component	Retention	Area	Internal	Units
H2	2.403	64.7618	1.1444	mg/L
O2	3.113	234.6604	20.5974	%eff

AOP Technologies Hydrogen Premium Water Sample Chromatogram