PRECISION MASS SPEC
CHEMICAL • PHARMACEUTICAL

CERTIFICATE OF ANALYSIS

COA Number	**PMS-4536948731**
Client	**RENOVITA RESEARCH LLC**
Product	**Bacteriostatic Water**
Received	**11/12/2026 1:01 PM CT**
Report Date	**11/12/2026**
Lot Number	**MMP2611BC10-RR-BACB-1112**

PRODUCT IDENTIFICATION

HPLC-UV coupled with LC-MS, standard laboratory conditions

Product Name	Bacteriostatic Water	**Preservative**	Benzyl Alcohol
Benzyl Alcohol CAS No.	100-51-6	**Benzyl Alcohol Formula**	C7H8O
Benzyl Alcohol Mol. Weight	108.14 g/mol	**Vehicle**	Water for Injection (USP)
Appearance	Clear Solution	**Compound Concentration**	10 mL

WATER BENZYL ALCOHOL

SAMPLE IDENTIFICATION

Client-supplied, verified at intake

Container Size	10ml Plastic Vial	**Cap Color**	Black
Crimp / Seal Color	Silver		
Product Company	RENOVITA RESEARCH LLC		



CLIENT SAMPLE PHOTO

ANALYTICAL RESULTS

Test	Specification	Result	Status
Mass Identification (LC-MS)	Conforms to declared compound	**Benzyl Alcohol**	**PASS**
Preservative Content (Benzyl Alcohol)	9.0 mg/mL (0.90% w/v) ± 10%	**9.04 mg/mL (0.90% w/v)**	**PASS**
Benzyl Alcohol Purity (HPLC)	>= 90.0%	**99.97%**	**PASS**
Heavy Metals (ICP-MS)	< 10 ppm	**Not Detected**	**PASS**
Bacterial Endotoxins (LAL)	< 0.25 EU/mL	**Not Detected**	**PASS**
Sterility (RMM)	USP <71>	**Not Requested**	-
pH (as supplied, 25°C) *Method: Potentiometric, USP <791>*	Report result	**5.08**	REPORTED

ANALYST NOTES

Sample received labeled as Bacteriostatic Water for Injection (0.9% benzyl alcohol), 10 mL multiple-dose vial, clear colorless solution.

Identity: LC-MS analysis of the principal peak (RT 3.09 min) produced a base ion at m/z 91.1 ([M+H-H2O]+, benzyl cation) with the protonated molecular ion at m/z 109.1, a sodium adduct at m/z 131.0 and a fragment at m/z 65.0, consistent with benzyl alcohol (CAS 100-51-6, MW 108.1). Identity result: Conforms.

Purity: 99.97% by HPLC-UV, benzyl alcohol peak relative to total integrated peak area. No benzaldehyde, benzoic acid or other degradation products detected above the reporting threshold.

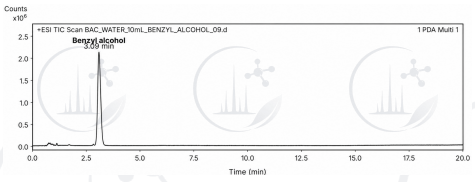
Benzyl alcohol content: 9.04 mg/mL (0.90% w/v) by HPLC-UV against a benzyl alcohol reference standard, 100.4% of the 0.9% label claim. Result: Conforms (within 90.0 to 110.0% of label).

pH: 5.08 at 22.9 °C (mean of triplicate measurements, potentiometric, USP <791>, sample adjusted with saturated KCl per monograph). Specification 4.5 to 7.0. Result: Conforms.

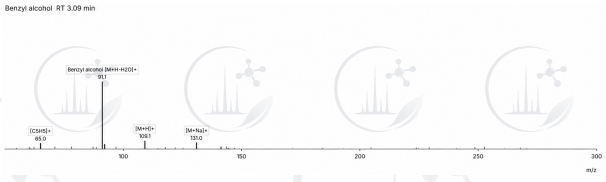
Conclusion: Sample conforms to label for identity, purity, benzyl alcohol content and pH.

INSTRUMENT DATA

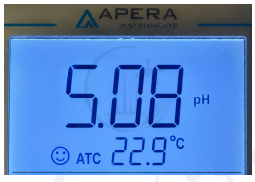
Traces behind the results above



TOTAL ION CHROMATOGRAM (LC-MS)
FIGURE 1



MASS SPECTRUM, PRINCIPAL PEAK (LC-MS)
FIGURE 2



ADDITIONAL INSTRUMENT DATA
FIGURE 3

Lee Adams
Lab Director
COA: PMS-4536948731

The analysis reported herein was conducted using HPLC-UV and LC-MS under standard laboratory conditions. This analysis is intended for informational purposes only and is specific to the sample(s) provided. The compounds tested are intended for research use only and are not approved for human or veterinary use, diagnostic, therapeutic, or clinical applications. Results should be interpreted by qualified professionals within the scope of the intended research. The accuracy and reliability of the test may be influenced by sample integrity, handling, and other experimental variables. The sample image included in this Certificate of Analysis was provided by the client during intake. For research use only.

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