CLIENT & SAMPLE INFORMATION

Client	Kare T ides	Certified Date	08/27/2026
Lot / Batch	BW -0002	Product Name	BAC W ater (Standard)
Preservative	Benzyl Alcohol 0.9%	Container	Glass V ial

This Certificate of Analysis certifies that the bacteriostatic water sample listed herein was tested for preservative content, sterility , and physicochemical properties in accordance with applicable USP/EP methods.

BENZYL ALCOHOL ASSAY (GC)

Parameter	Specification	Result	Status
Appearance (Color)	Colorless	Colorless	PASS
Appearance (Form)	Liquid	Liquid	PASS
Benzyl Alcohol Content	0.9% +/- 10%	0.90%	PASS
Purity (GC)	≥ 99.5%	99.9%	PASS
GC Impurity 1	≤ 0.50%	< 0.01%	PASS
GC Impurity 2	≤ 0.50%	ND	PASS
Refractive Index (20C)	1.540 - 1.542	1.541	PASS

Parameter	Specification	Result	Status
Additional Screens			
pH Analysis	4.5 - 7.0	6.130	PASS
Overall Determination			PASS

Reference: CAS 100-51-6 | C $_{7}H_{8}O$ | MW 108.14 g/mol | Method: Gas Chromatography per USP <621>

TESTING METHODOLOGY SUMMARY

Benzyl Alcohol Assay (GC)

The preservative content was quantified using Gas Chromatography per USP <621>. This method separates and measures benzyl alcohol concentration to verify the 0.9% w/v specification. Sample preparation involves dilution in appropriate solvent, followed by injection into the GC system equipped with a flame ionization detector (FID). Peak area is compared against certified reference standards to determine concentration. Impurity profiles are simultaneously assessed to ensure product purity meets pharmacopeial requirements.



ADDITIONAL QUALITY SCREENS

PH ANALYSIS

Method	USP <791>
Specification	4.5 - 7.0
Result	6.130
Status	PASS