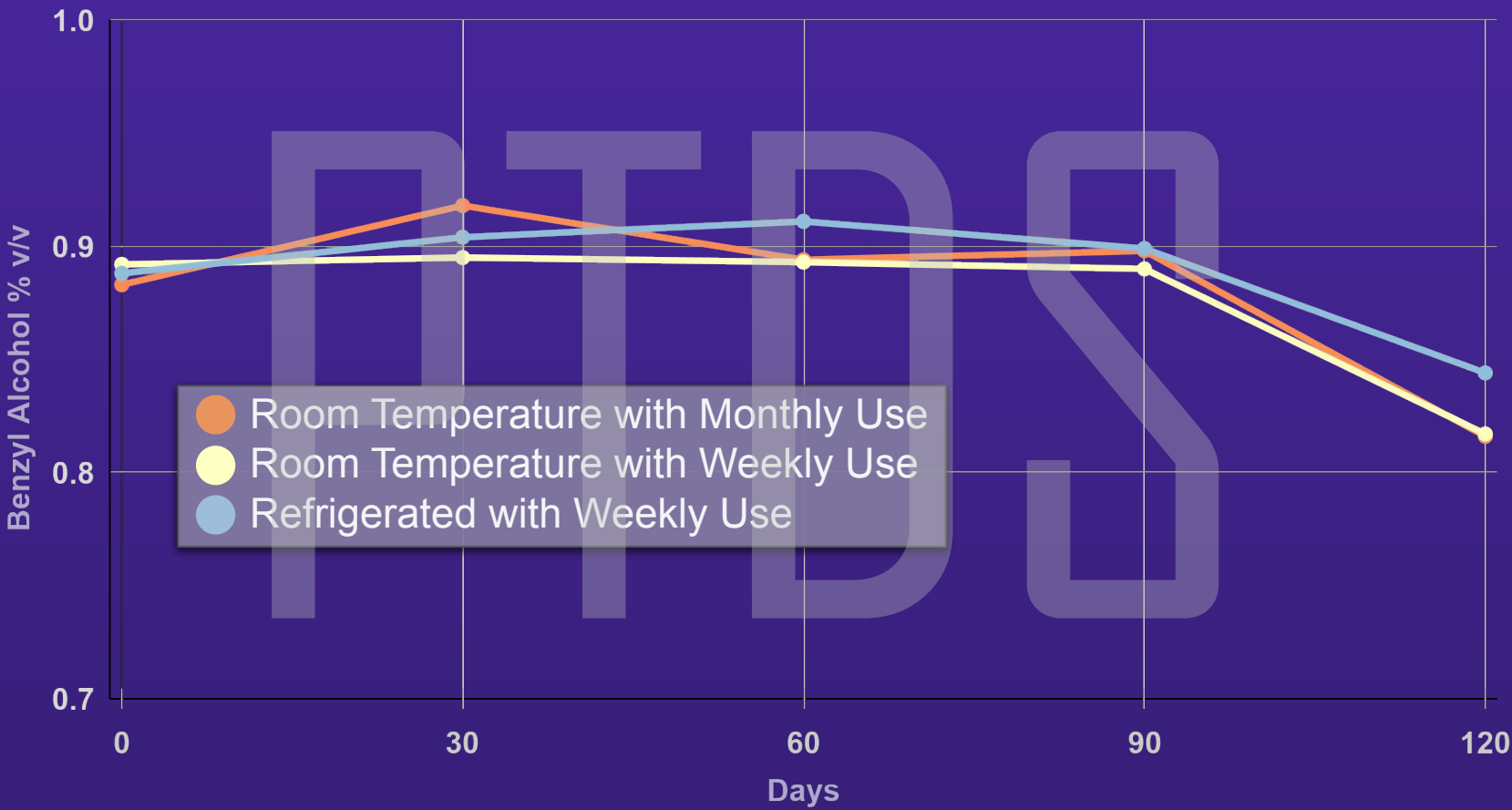




Only 28 Days? ¹

Hospira Bacteriostatic Water Stability Assessment

Bacteriostatic Water Degradation



STUDY CONDITIONS

Room Temperature, Monthly Use

Minimal punctures
Control vial

Room Temperature, Weekly Use

Weekly air exposure via puncture
Simulated use

Refrigerated, Weekly Use

Weekly air exposure via puncture
Cold storage test

KEY FINDINGS

Minimal degradation observed

All samples remained within literature-supported preservative ranges (>0.5% v/v). ²

Simulated use produced modest decline

Weekly air exposure had limited impact on BA concentration.

Refrigerated storage remains stable

Cold storage did not accelerate degradation.

NOTES

• The typical concentration of benzyl alcohol as a preservative in injectable formulations ranges from 0.5% to 2.0% v/v. In many commercially available bacteriostatic water for injection products, it is standardized at 0.9%. ²

• Method variance estimated up to 8%.

• These results are not intended to inform decisions about human use of any product, and should be considered for educational purposes only.

¹ USP General Chapter <797>, *Pharmaceutical Compounding—Sterile Preparations*, Section 14.4. Multiple-dose containers should be discarded within 28 days after initial entry unless otherwise specified by the manufacturer.

² BenchChem. *Application Notes and Protocols for the Use of Benzyl Alcohol as a Preservative in Injectable Medications*.