

Ethyl Alcohol 17.7%
made with Water for Injection (WFI)

Grain Derived

Catalog number: ZP111WFI035.4

Test	Specification	Typical Result
Assay (v/v)	17.5 % – 17.9 %	17.69 %
Assay (wt/wt)	14.2 % – 14.6 %	14.38 %
Specific Gravity	0.9776 – 0.9786 @ 15.56°C	0.9782
Specific Gravity	0.9770 – 0.9780 @ 20.00°C	0.9777
Acidity	To Pass Test	Pass
Appearance	Clear liquid, free from sediment	Pass
Color (Pt-Co)	10 max.	1
Odor	Characteristic	Pass
Bioburden – Plate Count	≤ 10 CFU/100 mL	LT 10 CFU/100 mL
Bioburden – Yeast & Mold	≤ 10 CFU/100 mL	LT 10 CFU/100 mL
Bacterial Endotoxins	≤ 19.2 EU/mL	LT 0.15 EU/mL

Certification and Compliance Statements

This product complies with all of the abovementioned specifications. This product is made with USP Grade Ethyl Alcohol and USP grade Water for Injection.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of ethyl alcohol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in Ethanol. Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467>.

This product is not certified as sterile. This product is not for direct human or veterinary parenteral administration, infusion, inhalation, or irrigation.

Greenfield products are for further commercial manufacturing, laboratory use, or research. Greenfield is not registered with the United States Food and Drug Administration (FDA) as a drug manufacturing facility. Greenfield products are not registered with the FDA as active pharmaceutical ingredients in drug manufacturing.

Appropriate/legal use of all products are the responsibility of the user and subject to applicable local laws and regulations.