## **Quality Assurance Department CERTIFICATE OF ANALYSIS**

ISOPROPYL ALCOHOL I.P.A. 99% USP					
1.F.A. 9970 USF					
Lot #:	1219				
Item #:	P210IP99				
Test Units	Method		Specification	Result	
Isopropyl alcohol, Assay %	Gas Chromatography		Not less than 99.85	99.95	
Volatile impurities, each individual impurity, %			Not more than 0.1	NMT 0.1	
Specific gravity in air, at 25 / 25 C	USP Monograph Physical Test Method 841		0.783 to 0.787	0.786	
IDENTIFICATION - Infrared absorption	Current USP		Conforms to standard	Conforms	
Acidity as Acetic Acid, mg / 100mL	ASTM D 1613-96		1.68 max.	0.60	
Acidity, mL	Current USP		Not more than 0.7 mL of 0.02 N sodium hydroxide to neutralize 50 mL sample	0.25	
Water content, v/v%	Karl Fisher Titration		0.32 max.	0.007	
Nonvolatile residue, % w/v	Current USP		Not more than 2.5 mg / 50 mL sample (0.005%)	0.0000	
Refractive index, at 20 C	Current USP		1.376 to 1.378	1.378	
Remarks:			Type of Packaging	Expiration Date (MMM/YYYY)	
	[		Glass		
		Ĺ	HDPE		
		X	Unlined carbon steel	Apr/2026	
	1		Lined steel		
Workbook Reference:	03041411		Disposition: Released Rejected	X	
Analyst(s):	DV/KS		Rejecteu		
Analysu(s):	DV/KS		Release Date: 08-Apr-2023		
Approved by: J.O.				ORle	
Effective Date: Feb. 10, 2023	Supersedes: Oct. 21, 2018		Q.A.	D. Peele	
Revision #: 7					