1 Gallon
V1001 KOPTEC , 1 Gallon
CERTIFICATE OF ANALYSIS
ETHYL ALCOHOL USP/Multicompendial 200 PROOF

Lot# A07072003Z Manufactured **July 2020**

Recommended Retest date is three years from the date of manufacture

Parameter	Monograph	UofM	Specifications	Result
Assay – ethyl alcohol	USP/BP/EP/JP	v/v%	≥ 99.9	100.0
Specific gravity @ 15.56°C	USP	N/A	< 0.7962	0.7936
Specific gravity @ 15°C	JP	N/A	0.79422-0.79679	0.79447
Relative Density@ 20.0°C	BP/EP/	N/A	0.790 – 0.793	0.791
Identification Test A	USP Test	N/A	Specific Gravity	Pass
Identification Test A	BP/EP	N/A	Relative Density	Pass
Identification Test B	USP/BP/EP	N/A	Conforms to IR Spectra	Pass
Identification Test B (1)	JP	N/A	Conforms to IR Spectra	Pass
Identification Test C	BP/EP	N/A	Colorimetric Test	Pass
Identification Test D	BP/EP	N/A	Precipitation Test	Pass
Color	USP/JP	N/A	Color of water	Pass
Clarity	USP	N/A	Clear	Pass
Clarity	JP	N/A	Clear	Pass
Water	USP	v/v%	≤ 0.1	0.0
Appearance	BP/EP	N/A	Clear, Colorless	Pass
Non volatile residue	USP/BP/EP/JP	ppm	≤ 25	<10

Volatile Impurities

Sum of Acetal & Acetaldehyde	USP/BP/EP	ppm	≤ 10	3
Benzene	USP/BP/EP	ppm	≤ 2	<2
Methanol	USP/BP/EP	ppm	≤ 100	1
Summary of secondary peaks	USP/BP/EP	ppm	≤ 300	<300
For Volatile impurities	JP	Meets the requirement of test		Pass
Acidity (or alkalinity)	USP/BP/EP	ppm	< 30 as acetic acid	Pass
Acidity or alkali	JP	N/A	Colorimetric Test	Pass
UV absorbance @ 240 nm	USP/BP/EP/JP	A	≤0.40	<0.40
UV absorbance @ 250-260 nm	USP/BP/EP/JP	A	≤0.30	<0.30
UV absorbance @ 270-340 nm	USP/BP/EP/JP	A	≤0.10	<0.10
UV absorbance @ 235-340 nm	USP/BP/EP/JP	N/A	The Spectrum shows a steadily descending curve with no observable Peaks or shoulders	Pass

Reviewed By Date: July 2020



Karen Wend
Manager, Quality and Technical Services
COA Template revised 03/01/2020 JP range

BSE/TSE Statement: There are no materials of animal origin in the raw materials or in the process aides used to manufacture any DLI products.