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caleb brett

Certificate of Analysis

Client:	US Ethanol LLC 350 10th Ave, Suite 1000 San Diego, CA 92101 United States of America
Client Reference Number:	TBN
Our Reference Number:	US340-0064757
Lab Reference Number:	2020-NYHB-002069

Customer Product Description:	Ethanol	**Sample ID:**	2020-NYHB-002069-005
Location:	US Ethanol LLC	**Date Sampled:**	Wednesday, October 21, 2020
Sample Representing:	UDNS 200 Proof Batch 6112-20295	**Date Submitted:**	Thursday, October 22, 2020
Drawn By:	Client	**Date Tested:**	Thursday, October 22, 2020

Method	Property	Result	Units	Min	Max
USP	Ethanol	99.37	Wt %		
	Ethanol	99.61	Vol %	99.5	
USP	Other Impurities	<5	µL/L		300
	Benzene	<1	µL/L		2
	Methanol	<200	µL/L		200
	Acetaldehyde	<1	µL/L		10
USP	Specific Gravity at 15.56 °C	0.7956			0.7962
USP	IR Scan	Pass		Pass	
USP	Acidity as Acetic Acid	<30	µL/L		30
USP	Residue on Evaporation	<0.1	mg/100		2.5
USP	Clarity	Pass		Pass	
USP	Color	Pass		Pass	
USP	UV Absorbance at 240nm	0.368	A/cm		0.40
	UV Absorbance at 250nm	0.189	A/cm		0.30
	UV Absorbance at 260nm	0.119	A/cm		0.30
	UV Absorbance at 270nm	0.097	A/cm		0.10
	UV Absorbance at 340nm	0.054	A/cm		0.10
	UV Smoothness of Curve	Smooth			Steady descending with no observable humps

**Impurities other than Methanol, Benzene, Acetaldehyde, Acetal

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The sample was submitted for testing purposes. Intertek cannot accept liability for the representativeness of the sample.

Signed: Richard Bomba

Date: 22-Oct-2020

Richard Bomba, Laboratory Manager