

CERTIFICATE OF ANALYSIS

CUSTOMER	Sample	PRODUCT	Grain Neutral Spirits 190 Proof
PO NUMBER	Sample	LOT NUMBER	092525820

ANALYTICAL RESULTS

TEST	RESULT	SPECIFICATION	METHOD
Proof	191.5	>= 190	ASTM D-4052
Specific Gravity 60°F	0.8128	<= 0.8160	ASTM D-4052
% Ethanol by volume	95.82	Not less than 94.9%	ASTM D-4052
Clarity of Solution*	Pass	Pass	USP
Color, Pt-Co*	3	< 5	Visual
Appearance	Clear		Visual
Odor	Clean; neutral	Clean; neutral	Organoleptic
Nonvolatile Matter, g/100mL*	0.0012	<= 0.0025	USP
Acidity	0.0015	<= 0.0025	ASTM D-1613
Ultraviolet Absorbance	0.127	NMT 0.4 at 240 nm	USP
	0.041	NMT 0.3 between 250 and 260 nm	USP
	0	NMT 0.1 between 270 and 340 nm	USP
Acetaldehyde	0	< 2 ppm	GC-FID
Methanol	0	< 1 ppm	GC-FID
Esters (as Ethyl Acetate)	0	< 1 ppm	GC-FID
Propanols	0	< 1 ppm	GC-FID
Benzene	0	Non-Detect	GC-FID
Amyl Alcohols	0	< 2 ppm	GC-FID
Sum of all other impurities	0	< 1 ppm	GC-FID
Permanganate Time, min.*	>= 40 minutes	>= 40 minutes	USP

* Selected tests are marked with an asterisk on the source COA.

Source manufacturer: Golden Triangle | Date of manufacture and source approval: 09/25/2025