



ORIGINAL

# CERTIFICATE OF ANALYSIS

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**Product Name : PGUSP**

**Lot No : C00131UP**

**Manufacturing Date : 2019-01-03**

**Expiry Date : 2021-01-02**

Property	Specification	Test Result	Test Method
Identification , -	Min. Pass	Pass	Current USP
Appearance , -	Min. clear	Clear	Visible
MPG , wt. %	Min. 99.8	99.96	Current USP/ASTM E 202
EG , ppm	Max. 50	0	Current USP
DEG , ppm	Max. 50	0	Current USP
Residue on Ignition , ppm	Max. 20	5.0	Current USP
Chloride , ppm	Max. 1	0.0	Current USP
Sulfate , ppm	Max. 10	0.0	Current USP
Heavy Metals as Pb , ppm	Max. 1	LT1.0	Current USP
Sp.Gr , 20/20 c	1.037 - 1.039	1.038	Current USP/ASTM D 4052
Sp.Gr(USP) , 25/25 c	1.035 - 1.037	1.036	Current USP/ASTM D 4052
Acidity , ml	Max. 0.05	0.02	Current USP/ASTM D 1613
Water , ppm	Max. 700	60	Current USP/ASTM E 203
Fe , ppm	Max. 0.1	0.02	ASTM E 394
Color , APHA	Max. 10	2.0	ASTM D 1209
IBP , DegC	Min. 186	186.2	ASTM D 1078
DP , DegC	Max. 189	187.4	ASTM D 1078

\*LT : Less Than

I certify the above statements are true and correct.

Date Recorded : 2019-01-07

Quality Assurance Manager : J. H. CHA

차주현