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CERTIFICATE OF ANALYSIS

Date: 4/28/2015

P.O. 1656

Product: Glycerin 99.7% USP/K

Lot #: G150225-1W

Production Date: 2/25/2015

Expiration Date: 2/25/2016

CLP #: 15-03084

Parameter	Unit	Result	Specification	Test Method
Appearance		Transparent	Transparent	Visual
Identification A (IR)		Conform	Conform	USP 37 : 2014 (197F)
Identification B				
- Diethylene Glycol	%	<0.10	0.10 max	USP 37: 2014
- Ethylene Glycol	%	<0.10	0.10 max	USP 37: 2014
Identification C				
(Confirmation of Glycerin by GC)		Conform	Conform	USP 37: 2014
Glycerine Content	%	99.8	99.7 min	USP 37 : 2014
Inorganic Impurities :				
- Chloride	ppm	<10	10 max	USP 37: 2014 (221)
- Sulfate	ppm	<20	20 max	USP 37: 2014 (221)
- Heavy Metal as Pb	ppm	< 5	5 max	USP 37: 2014 (231)
- Residue on Ignition	%	0.006	0.01 max	USP 37: 2014 (281)
Organic Impurities :				
- Related Compounds				
- Individual Impurities	%	NIL	0.10 max	USP 37: 2014
- Total Impurities	%	NIL	1.0 max	USP 37: 2014
- Chlorinated Compounds	ppm	<30	30 max	USP 37: 2014
Fatty Acids & Esters		0.23	1 max	USP 37: 2014
(as mL of 0.5N NaOH/50 g)				
Specific Gravity @ 25		1.2614	1.2612 min	USP 37: 2014 (841)
Moisture Content	%	0.14	0.3 max	USP 37: 2014 (921)
- Color	APHA	5	10 max	AOCS Ea 9-65