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**UTAH OFFICE** 

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## **Certificate of Analysis**

**Order Number:** 4545

**Ship Date:** 10/30/2014

Vehicle Number:

**Estimated Quantity:** 160 Drums

**Delivery No.:** 160415

## Product Name Propylene Glycol USP

## **Test Details**

Test Details			
Results	Unit	Specifications	
		Min	Max
10/28/14			
100	Wt %	99.5	
PASS		Pass	
0.0005	Wt.%		0.005
0.002	Wt.%		0.200
4	Pt-Co		10
< 60	ppm		60
< 1			5
PASS		PASS	
PASS		PASS	
< 0.10	ppm		1
< 0.02	ppm		0.5
PASS		PASS	
1.0359	Deg C	1.035	1.037
0.001	ppm		70
186		185	
189	°C		189
1.4324	Deg C	1.4310	1.4340
PASS	C	PASS	
PASS		PASS	
	ppm (1)		1
PASS	wt%		0.10
PASS	wt%		0.10
	10/28/14 100 PASS 0.0005 0.002 4 < 60 < 1 PASS PASS < 0.10 < 0.02 PASS 1.0359 0.001 186 189 1.4324 PASS PASS PASS	10/28/14 100 Wt % PASS 0.0005 Wt.% 0.002 Wt.% 4 Pt-Co < 60 ppm	Results         Unit         Specif Min           10/28/14         100         Wt %         99.5           PASS         Pass           0.0005         Wt.%         99.5           0.002         Wt.%         99.5           0.002         Wt.%         99.5           0.002         Wt.%         99.5           0.002         Wt.%         99.5           4         Pt-Co         9888           PASS         PASS           PASS         PASS           1.035         PASS           1.035         PASS           1.035         PASS           1.4324         Deg C         1.4310           PASS         PASS           PASS         PASS           PASS         PASS           PASS         PASS

Notes: (1) Agreed Specification limits – no results reported

Product meets or exceeds all requirements of the United States Pharmacopeia (USP), European Pharmacopeia (EP) and the Food Chemicals Codex (FCC)

Lot Number and Traceability

The shelf life of propylene glycol USP when stored and handled under appropriate conditions is at least one year from manufacturing date. Subsequent handling and/or repackaging by intermediates many affect shelf life. In general, the user should determine the suitability of any chemical, no matter what the shelf life or length of time of storage. Each user should establish the suitability of any product for his intended use.

Traceability may be maintained through the lot number indicated in this document.