



1440 Olympic Drive  
Athens, Georgia 30601

Phone 706-353-4400  
Fax 706-353-3205

## Certificate of Analysis

Certificate Number: 2015-SA-129

Material Name: Oxymorphone Test Mix  
NDC #: 51634-0095-\*\*  
Reference Standard #: NQS0817 (Identification only)  
Date of Manufacture: July 2008  
Requalification Date: September 30, 2020

### Oxymorphone Test Mix

Oxymorphone Hydrochloride containing the following impurities with a concentration of approximately 2%: oxymorphone N-oxide, 8-hydroxyoxymorphone hydrochloride, 14-hydroxymorphinone hydrochloride, hydromorphone hydrochloride, oripavine hydrochloride, 14- $\alpha$ -hydroxydihydromorphine hydrochloride, oxycodone hydrochloride and 2,2'-bisoxymorphone hydrochloride.

<b>Test</b>	<b>Limit</b>	<b>Result</b>
Appearance	Report Results	Off-white powder
Mass Spectrometry	Consistent With Structure	Complies
Retention Times by HPLC	Information Only	Complies

<b>Component</b>	<b>RRT*</b>
Oxymorphone N-Oxide	0.26
8-Hydroxyoxymorphone	0.79
14-Hydroxymorphinone	0.87
Hydromorphone	0.90
Oxymorphone	1.00
Oripavine	1.10
14-Hydroxydihydromorphine, $\alpha$ isomer	1.14
Oxycodone	1.75
2,2'-Bisoxymorphone	1.90

\*Retention times and relative retention times (RRTs) are based on Noramco's method DS-TMD-5264.

**Storage Conditions:** Store under ambient temperature and humidity conditions.

**Attention:** This material is not intended for sale for human consumption.

Prepared By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Authorized By: \_\_\_\_\_

**Figure 1: Oxymorphone Test Mix (NQS0817) Chromatogram.**

