

# Analytical Reference Standards

## High Quality Noramco-Qualified Standards



# Highly characterized, highly purified standards

The United States Food and Drug Administration requires reference-standard materials to be of the highest quality, and thoroughly characterized, to assure identity, strength, and quality. Noramco offers well-characterized, highly purified analytical reference standards for routine analysis, method validation and development, commercial investigations, stability studies and other product development activities.

Noramco's reference standards program is focused on the synthesis of compounds of complex chemistry. Review our catalog of more than 225 reference standards. All reference materials may be ordered in a variety of quantities to meet your project requirements.

## Reference standard qualifications


Noramco utilizes various sophisticated spectroscopic techniques to characterize each reference standard. Overall purity, or "Purity Factor," is typically derived from 100% less the summation of inorganic, organic and solvent impurities.

Table 1. Typical Certificate of Analysis includes:

- 1.0 Appearance
- 2.0 Identification
- 3.0 Inorganic impurities
- 4.0 Organic impurities
- 5.0 Solvent impurities
- 6.0 Purity factor

All analytical reference standards include a signed certificate of analysis (CoA) and safety data sheet. The data within the CoA is based on information we believe to be highly accurate and reliable. Reference standards supplied by Noramco are intended only for analytical and research purposes and may not be used for human consumption.

For reference standards technical support, contact: refstds@noramco.com.

  
1440 Olympic Drive  
Athens, Georgia 30601  
Phone 706-353-4400  
Fax 706-353-3205


**Certificate of Analysis**  
Certificate Number: 2016-SA-128


Material Name: Norbuprenorphine Hydrochloride  
NDC #: 51634-1048-11  
Reference Standard #: NQS1202  
Date of Manufacture: March 2012  
Requalification Date: December 31, 2019


Test	Limit	Result
Appearance	Report Results	Off-white powder
Infrared Spectroscopy <sup>1</sup>	Consistent With Structure	Complies
Mass Spectrometry <sup>2</sup>	Consistent With Structure	Complies
Residue on Ignition (ROI)	Report Results	<0.05%
Karl Fischer (KF)	Report Results	0.35%
Residual Solvents (ROS)	Report Results	1.74%
Total Impurity by HPLC	Report Results	2.23%
Purity Factor <sup>3</sup>	Report Results	95.7%

<sup>1</sup> See Figure 1  
<sup>2</sup> See Figure 2  
<sup>3</sup> Purity Factor is derived from 100% less summation of ROI, KF, ROS and HPLC impurities (utilizing Noramco's internal methods). Values less than 0.05% are not included in the Purity Factor.

**Storage Conditions:** Store under ambient temperature and humidity conditions.  
This material is not intended for sale for human consumption.

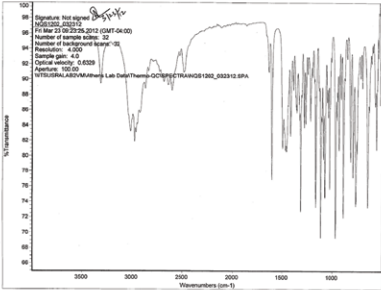
Prepared By:   
Analytical Scientist, or designee

Approved By:   
Analytical Services Supervisor, or designee

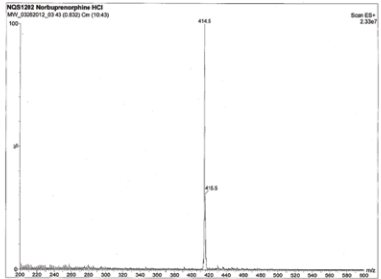
Authorized By:   
Quality Assurance, or designee

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**Figure 1: Norbuprenorphine Hydrochloride (NQS1202) FT-IR Spectrum in ATR**



**Figure 2: Norbuprenorphine Hydrochloride (NQS1202) MS Spectrum**



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Sample certificate of analysis



Common Name	Other Names	CAS #	NDC#
<b>Amphetamine Salts</b>			
Amphetamine Aspartate (CII)		N/A	51634-2023-.**
Amphetamine Formamide (NC)	N-formylamphetamine	22148-75-0	51634-2040-.**
Amphetamine Impurity 251 (NC)		N/A	51634-2039-.**
Amphetamine Sulfate (CII)	USP Impurity	60-13-9	51634-2024-.**
Dextroamphetamine Saccharate (CII)		350708-40-6	51634-2021-.**
Dextroamphetamine Sulfate (CII)	USP Impurity	51-63-8	51634-2022-.**
Dextroamphetamine Sulfate, < 98% EE (CII)		51-63-8	51634-2022-.**
Phenylacetone (CII)	USP Impurity B	103-79-7	51634-2026-.**
<b>Buprenorphine Base and Hydrochloride</b>			
15,16-Dehydrobuprenorphine Base (CII)		61577-04-6	51634-1052-.**
17,18-Dehydrobuprenorphine Base (CII)	EP Impurity J; Ethenobuprenorphine; USP Impurity	155203-05-7	51634-1036-.**
19,19' Ethenylbuprenorphine (CII)	EP Impurity F	97203-04-8	51634-2164-.**
2,2'-Bisbuprenorphine Base (CII)	EP Impurity G; USP Impurity	163597-04-4	51634-2119-.**
3-Deshydroxybuprenorphine Base (CII)		N/A	51634-1037-.**
3-O-Methylbuprenorphine Base (CII)	EP Impurity D; USP Impurity	16524-65-5	51634-1044-.**
3-O-Methyl-N-cyanonorbuprenorphine Base (CII)	EP Impurity C; Buprenorphine Nitrile; USP Impurity	16614-60-1	51634-1041-.**
3-O-Methyl-N-methylnorbuprenorphine Base (CII)		16196-70-6	51634-1042-.**
3-O-Methylnorbuprenorphine Base (CII)		16614-59-8	51634-1043-.**
6-O-Desmethylbuprenorphine Base (CII)	EP Impurity E; USP Impurity	130668-48-3	51634-1038-.**
Buprenorphine Base (CIII)		52485-79-7	51634-1039-.**
Buprenorphine Hydrochloride (CIII)		53152-21-9	51634-1040-.**
Buprenorphine N-Oxide (CII)		112242-17-8	51634-1045-.**
N-But-3-enylnorbuprenorphine Base (CII)	USP Compound A; EP Impurity A	457071-73-7	51634-1046-.**
N-But-3-enylnormethylbuprenorphine Base (CII)	3-O-Methyl-N-(But-3-enyl) Norbuprenorphine Base (CII)	N/A	51634-2000-.**
N-butylnorbuprenorphine (CII)	EP Impurity H	90387-35-2	51634-2101-.**
N-Methylnorbuprenorphine Base (CII)		228550-34-3	51634-1047-.**
Norbuprenorphine Hydrochloride (CII)	EP Impurity B; Dealkylbuprenorphine; USP Impurity	209963-02-0	51634-1048-.**
Tetramethylfuran Buprenorphine (CII)	EP Impurity I; THF Buprenorphine	89663-73-0	51634-2125-.**
<b>7-S-Buprenorphine (CIII)</b>	<b>NEW</b> 7-β-Buprenorphine; Buprenorphine 7-(S)-epimer; USP Impurity	152610-73-6	51634-2227-.**
<b>10-Keto-Buprenorphine (CII)</b>	<b>NEW</b> 10-oxo-buprenorphine	1044710-08-8	51634-2217-.**
<b>N-Formyl Buprenorphine (CII)</b>	<b>NEW</b>	N/A	51634-2225-.**
<b>Isobutylnorbuprenorphine (CII)</b>	<b>NEW</b>	N/A	51634-2252-.**



Common Name		Other Names	CAS #	NDC#
<b>Cannabinoids</b>				
$\Delta^9$ -Tetrahydrocannabinol (CI)	NEW	THC; 20% Dronabinol in Ethanol	1972-08-3	51634-2160-**
$\Delta^9$ -Tetrahydrocannabinolic Acid (CI)	NEW	THCA	23978-85-0	51634-2187-**
$\Delta^8$ -Tetrahydrocannabinol (CI)	NEW	USP Impurity	5957-75-5	51634-2161-**
$\Delta^9$ -Tetrahydrocannabinol Naphthoylester (CI)	NEW		874200-77-8	51634-2199-**
$\Delta^8$ -Tetrahydrocannabinol Naphthoylester (CI)	NEW		N/A	51634-2198-**
Exo-Tetrahydrocannabinol (CI)	NEW	Exo-THC; USP Impurity	32794-91-5	TBD
Exo-Tetrahydrocannabinol Naphthoylester (CI)	NEW		N/A	51634-2238-**
Cannabinol (CI)	NEW	CBN; USP Impurity	521-35-7	51634-2156-**
$\Delta^9$ -Tetrahydrocannabinol (THC)-Methyl Analogue (CI)	NEW		172301-79-0	TBD
20% $\Delta^9$ -Tetrahydrocannabinol in Ethanol (165mg/ml) (CI)	NEW		1972-08-3	51634-2189-**
20% $\Delta^8$ -Tetrahydrocannabinol in Ethanol (165mg/ml) (CI)	NEW		5957-75-5	51634-2239-**
Cannabidiol (CI)	NEW	CBD	13956-29-1	51634-2155-**
4-monobromo Cannabidiol (CI)	NEW		112639-10-8	51634-2211-**
Cannabidiol Quinone (NC)	NEW	CBQ	137252-25-6	TBD
Cannabidiolic Acid (CI)	NEW	CBDA	1244-58-2	51634-2184-**
Cannabichromene (CI)	NEW	CBC	20675-51-8	51634-2180-**
Cannabichromenic Acid (CI)	NEW	CBCA	185505-15-1	51634-2181-**
$\Delta^9$ -Tetrahydrocannabivarin (CI)	NEW	THCV	31262-37-0	51634-2167-**
$\Delta^9$ -Tetrahydrocannabiarinic Acid (CI)	NEW	THCVA	39986-26-0	51634-2188-**
Cannabidivarin (CI)	NEW	CBDV	24274-48-4	51634-2166-**
Cannabidivarinic Acid (CI)	NEW	CBDVA	31932-13-5	51634-2185-**
Cannabichromevarin (CI)	NEW	CBCV	57130-04-8	51634-2182-**
Cannabichromevarinic Acid (CI)	NEW	CBCVA	64898-02-8	51634-2183-**
Cannabigerol (CI)	NEW	CBG	25654-31-3	51634-2231-**
Cannabigerolic Acid (CI)	NEW	CBGA	25555-57-1	51634-2186-**
Cannabicyclic Acid (CBLA) (CI)	NEW	CBLA	40524-99-0	TBD
<b>Codeine Phosphate, Codeine Base, Codeine Sulfate</b>				
10-Hydroxycodeine Base (CII)		USP Impurity; EP Impurity E	1777-89-5	51634-0940-**
14-Hydroxycodeine Base (CII)		EP Impurity F	4829-46-3	51634-0923-**
a-Codeimethine Base (CII)			23950-06-3	51634-0904-**
Codeine Base (CII)		USP Impurity	76-57-3	51634-0009-**
Codeine-6-methyl Ether Base (CII)		USP Impurity; O-Methylcodeine; EP Impurity A	2859-16-7	51634-0903-**
Codeinone Base (CII)		USP Impurity	467-13-0	51634-0998-**
Dimethylpseudomorphine Base (CII)		EP Impurity C	121395-47-9	51634-0901-**
Morphine Base (CII)	NEW	USP Impurity	57-27-2	51634-0018-**
Norcodeine Base (CII)		USP Impurity	467-15-2	51634-2046-**
Thebaine Alkaloid (CII)	NEW	USP Impurity; EP Impurity G	115-37-7	51634-0006-**
<b>Codeine-N-Oxide (CI)</b>		USP Impurity	3688-65-1	51634-0048-**
Hydrocodone Bitartrate		USP Impurity; EP Impurity B		

Common Name	Other Names	CAS #	NDC#
<b>Hydrocodone Bitartrate</b>			
10-Hydroxyhydrocodone Base (CII)		1004312-79-1	51634-1020-**
<b>10-β-Hydroxyhydrocodone (CII)</b>	<b>NEW</b>	184884-65-9	51634-2201-**
10-Ketohydrocodone Base (CII)		1273112-37-0	51634-2016-**
6-b-Tetrahydrothebaine Base (CII)	EP Impurity G	41714-53-8	51634-1017-**
8,14-dihydrothebaine (CII)	EP Impurity J	561-25-1	51634-0995-**
Codeine Base (CII)	USP Impurity; EP Impurity C	76-57-3	51634-0009-**
Codeine-6-methyl Ether Base (CII)	USP Impurity; O-Methylcodeine; EP Impurity F	2859-16-7	51634-0903-**
Codeinone Base (CII)	USP Impurity; EP Impurity E	467-13-0	51634-0998-**
Dihydrocodeine Base (CII)	EP Impurity B; USP Impurity	125-28-0	51634-0088-**
Dihydrothebainone Base (CII)	USP Compound A	847-86-9	51634-0911-**
<b>Hydrocodone Aldol Dimer (CII)</b>	<b>NEW</b>	N/A	51634-2170-**
Hydrocodone Base (CII)	USP Impurity	125-29-1	51634-0015-**
Hydrocodone Bitartrate (CII)	USP Impurity	34195-34-1	51634-0104-**
Hydrocodone N-Oxide (CII)		909265-05-0	51634-1000-**
Hydromorphone Hydrochloride (CII)	EP Impurity K	71-68-1	51634-0057-**
Methylene Bridged Hydromorphone Dimer Base (CII)		N/A	51634-0933-**
Methylene Bridged Morphine Dimer Base (CII)		N/A	51634-0932-**
Morphine Base (CII)	EP Impurity A	57-27-2	51634-0018-**
Morphine Sulfate (CII)	USP Impurity	64-31-3	51634-0017-**
Oxycodone Base (CII)	EP Impurity D	76-42-6	51634-0003-**
Oxycodone Hydrochloride (CII)		124-90-3	51634-0102-**
Pseudohydrocodone Base (CII)		N/A	51634-0915-**
Thebaine Alkaloid (CII)	USP Impurity; EP Impurity I	115-37-7	51634-0006-**
<b>Hydromorphone Hydrochloride</b>			
6-b-Tetrahydrooripavine Base (CII)	USP Impurity	63732-74-1	51634-0990-**
8,14-Dihydrooripavine Base (CII)	USP Impurity	873087-79-7	51634-0083-**
8-Hydroxyhydromorphone (CII)	USP Impurity	339525-94-9	51634-0988-**
Dihydromorphine Base (CI)	USP Impurity; EP Impurity D	509-60-4	51634-0987-**
Hydromorphone Hydrochloride (CII)	USP Impurity	71-68-1	51634-0057-**
Hydromorphone N-Oxide (CII)	EP Impurity B; USP Impurity	109648-80-8	51634-0991-**
Hydromorphone Aldol Dimer HCl (CII)		N/A	51634-2191-**
Morphine Base (CII)	EP Impurity C; USP Impurity	57-27-2	51634-0018-**
Morphinone Perchlorate (CII)	USP Compound A	91265-67-7	51634-1001-**
Norhydromorphone Base (CII)		14696-23-2	51634-0989-**
Pseudodihydrooripavine Base (CII)		N/A	51634-0993-**
Pseudohydromorphone Base (CII)	EP Impurity A; USP Impurity; 2,2'-bishydromorphone	N/A	51634-0981-**
<b>10-Ketohydromorphone</b>	<b>NEW</b>	N/A	51634-2204-**
<b>10-α-Hydroxyhydromorphone</b>	<b>NEW</b>	N/A	51634-2202-**



Common Name	Other Names	CAS #	NDC#
<b>Methylphenidate Hydrochloride</b>			
Ethylphenidate Hydrochloride (NC)	USP Impurity; EP Impurity E	19716-79-1	51634-1054-**
Methylphenidate Hydrochloride (CII)	USP Impurity	298-59-9	51634-0114-**
Methylphenidate Hydrochloride, erythro isomer (CII)	USP Impurity; EP Impurity B	23644-60-2	51634-2111-**
Ritalinic Acid (NC)	USP Compound A; EP Impurity A	19395-41-6	51634-1055-**
<b>Dexmethylphenidate HCl (CII)</b>	<b>NEW</b>	19262-68-1	51634-2112-**
<b>Dextritalinic Acid (NC)</b>	<b>NEW</b>	129389-67-9	
<b>Morphine Sulfate</b>			
<b>10-Ketomorphine (CII)</b>	<b>NEW</b>	68254-48-8	51634-1093-**
<b>10- Hydroxymorphine (CII)</b>	<b>NEW</b>	131563-73-0	51634-0939-**
14-hydroxymorphine Base (CII)		3371-56-0	51634-1088-**
Codeine Base (CII)	USP Impurity; EP Impurity A	76-57-3	51634-0009-**
Morphine Base (CII)	USP Impurity	57-27-2	51634-0018-**
Morphine N-Oxide (CI)	USP Compound A; EP Impurity F	639-46-3	51634-0907-**
Morphine Sulfate (CII)	USP Impurity	64-31-3	51634-0017-**
Morphinone Perchlorate (CII)	EP Impurity E	91265-67-7	51634-1001-**
Oripavine Base (CII)	EP Impurity C	467-04-9	51634-0001-**
Pseudomorphine Base (CII)	USP Compound B; EP Impurity B 2,2'-bimorphine	125-24-6	51634-0902-**
<b>Nabilone</b>			
<b>Nabilone (CII)</b>	<b>NEW</b>	51022-71-0	51634-2162-**
<b>Nabilone Compound 1 (Resorcinol) (NC)</b>	<b>NEW</b>	56469-10-4	516342240-**
<b>Nabilone Compound 2 (NC)</b>	<b>NEW</b> 5-(1,1-Dimethylheptyl)-12- isopropylidene-8-oxa-tri- cyclo[7.3.1.0 <sub>2,7</sub> ]trideca-2 (7),3,5-trien-3,9-diol	65769-09-7	516342241-**
<b>Nabilone Compound 3 (Cis-Nabilone) (NC)</b>	<b>NEW</b> Cis-Nabilone	56469-15-9	516342242-**
<b>Nabilone Compound 4 (NC)</b>	<b>NEW</b> 5-(1,1-Dimethylheptyl)-12- iso- propylidene-9-methoxy-8-oxa-tri- cyclo[7.3.1.0 <sub>2,7</sub> ]trideca-2(7),3,5- trien-3-ol	65863-94-7	516342243-**



Common Name		Other Names	CAS #	NDC#
<b>Nabilone Compound 5 (NC)</b>	<b>NEW</b>	2-(4-Methoxy-cyclohexa-1,4-dienyl) propan-2-ol	61597-37-3	516342244-**
<b>Naloxone Base and Hydrochloride</b>				
10-a-Hydroxynaloxone Base (CII)		EP Impurity C	2139253-68-0	51634-2009-**
10-b-Hydroxynaloxone Base (CII)		EP Impurity F	2139253-69-1	51634-2010-**
10-Ketonaloxone Base (CII)			294175-43-2	51634-2042-**
3-O-Methylnaloxone (CII)		EP Impurity G	70866-64-7	51634-2048-**
3-O-Allylnaloxone Hydrochloride (CII)		EP Impurity B	2139253-87-3	51634-2050-**
7,8-Didehydronaloxone Base (CII)		EP Impurity D	26451-92-3	51634-2043-**
Naloxone Base (NC)		USP Impurity	465-65-6	51634-2017-**
Naloxone Dimer (CII)		EP Impurity E; 2,2'-bisnaloxone	211738-08-8	51634-2041-**
Naloxone Hydrochloride (NC)			357-08-4	51634-2018-**
Naloxone N-Oxide (CII)			112242-14-5	51634-2109-**
Noroxymorphone Base (CII)		EP Impurity A; USP Impurity	33522-95-1	51634-1022-**
Noroxymorphone Carbamate (CII)			144265-46-3	51634-2006-**
<b>4-Hydroxy-7,8 Didehydronaloxone HCl (CII)</b>	<b>NEW</b>		N/A	516342233-**
<b>N-Allyl-10-Hydroxynorhydromorphone (CII)</b>	<b>NEW</b>	Naloxone Impurity 3	N/A	51634-2222-**
<b>6-Alpha Naloxol (CII)</b>	<b>NEW</b>		20410-95-1	51634-2234-**
<b>6-Beta Naloxol (CII)</b>	<b>NEW</b>		53154-12-4	51634-2235-**
<b>Naltrexone Base and Hydrochloride</b>				
10-Hydroxynaltrexone Base (CII)			60767-82-0	51634-2052-**
10-Ketonaltrexone Base (CII)		EP Impurity I	96445-14-6	51634-2011-**
14-Hydroxy-17-cyclopropylmethylnormorphinone Base (CII)			123086-68-0	51634-2012-**
2,2'-Bisnaltrexone Base (CII)		EP Impurity D; Pseudonaltrexone	607732-61-6	51634-1061-**
3-(Cyclopropylmethyl) Naltrexone Base (CII)		EP Impurity E	767615-69-0	51634-1062-**
3-O-Methylnaltrexone Base (CII)		EP Impurity J	16617-07-5	51634-2104-**
8-Hydroxynaltrexone Base (CII)			N/A	51634-2007-**
N-(3-Butenyl)-noroxymorphone Base (CII)		USP Compound A; EP Impurity C	189016-90-8	51634-2013-**
Naltrexone Aldol Dimer Base (CII)			607732-61-6	51634-1063-**
Naltrexone Base (NC)		USP Impurity	16590-41-3	51634-1060-**
Naltrexone Hydrochloride (NC)			16676-29-2	51634-1064-**
Noroxymorphone Base (CII)		USP Impurity; EP Impurity B	33522-95-1	51634-1022-**
Noroxymorphone Carbamate (CII)			144265-46-3	51634-2006-**
Oxymorphone Base (CII)		USP Impurity	76-41-5	51634-0913-**
Oxymorphone Hydrochloride (CII)			357-07-3	51634-0095-**
<b>Oxycodone Hydrochloride</b>				
10-Hydroxyoxycodone Base (CII)		USP Impurity	96453-12-2	51634-2005-**
10-Ketooxycodone Base (CII)			96445-11-3	51634-2126-**
14-Hydroxycodeinone Base (CII)		USP Compound A; EP Impurity D	508-54-3	51634-0906-**
7,8-Dihydro-14-hydroxycodone Base (CII)		6-a-Oxycodol (USP); EP Impurity B	7183-69-9	51634-0920-**
7,8-Dihydro-8,14-dihydroxycodone Base (CII)		USP Impurity (8β-Hydroxyoxycodone)	23185-97-9	51634-0918-**

Common Name	Other Names	CAS #	NDC#
7-Methyloxycodone Base (CII)		2859-09-8	51634-1032-**
Codeinone Base (CII)	USP Compound C	467-13-0	51634-0998-**
Hydrocodone Base (CII)	EP Impurity E, USP Impurity	125-29-1	51634-0015-**
Noroxycodone Hydrochloride (CII)	EP Impurity C	52446-25-0	51634-1057-**
Noroxymorphone Base (CII)	NEW USP Impurity	33522-95-1	51634-1022-**
<b>Oxycodone Aldol Dimer (CII)</b>		N/A	51634-2171-**
Oxycodone Base (CII)	USP Impurity	76-42-6	51634-0003-**
Oxycodone Ethyl Enolate (CII)		100740-55-4	51634-0919-**
Oxycodone Hydrochloride (CII)	USP Impurity	124-90-3	51634-0102-**
Oxycodone N-Oxide (CII)	USP Compound B	71539-52-1	51634-0908-**
Oxymorphone Base (CII)	EP Impurity A; USP Impurity	76-41-5	51634-0913-**
Oxymorphone Hydrochloride (CII)		357-07-3	51634-0095-**
Thebaine Alkaloid (CII)	USP Impurity; EP Impurity F	115-37-7	51634-0006-**
<b>Oxymorphone Hydrochloride</b>			
10-Hydroxyoxymorphone Base (CII)		1801682-01-8	51634-2020-**
10-Ketooxymorphone Base (CII)		96445-15-7	51634-2019-**
14-a-Hydroxydihydromorphine Base (CI)		2183-56-4	51634-1053-**
14-Hydroxycodeinone Base (CII)	USP Compound	508-54-3	51634-0906-**
14-Hydroxymorphinone Base (CII)		41135-98-2	51634-1013-**
2,2'-Bisoxymorphone Base (CII)		1426174-64-2	51634-1028-**
4-Hydroxyoxymorphone Base (CII)	NEW	N/A	51634-2130-**
<b>4-Hydroxyoxymorphone HCl (CII)</b>		N/A	51634-2153-**
8-Hydroxyoxymorphone Base (CII)		109440-85-9	51634-1050-**
Hydromorphone Hydrochloride (CII)	USP Impurity	71-68-1	51634-0057-**
Noroxymorphone Base (CII)	USP Impurity	33522-95-1	51634-1022-**
Oxycodone Base (CII)		76-42-6	51634-0003-**
Oxycodone Hydrochloride (CII)	USP Impurity	124-90-3	51634-0102-**
<b>Oxymorphone Aldol Dimer (CII)</b>	NEW	N/A	51634-2133-**
Oxymorphone Base (CII)	USP Impurity	76-41-5	51634-0913-**
Oxymorphone Hydrochloride (CII)	USP Impurity	357-07-3	51634-0095-**
Oxymorphone N-Oxide (CII)	USP Compound A	71360-37-7	51634-1049-**
Pyran Bridged Oxymorphone Dimer (CII)		N/A	51634-1059-**
<b>Miscellaneous</b>			
<b>Lisdexamfetamine Dimesylate (CII)</b>	NEW	608137-33-3	51634-2058-**

## How to order analytical reference material

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### Noramco Reference Standards Group

1550 Olympic Drive  
Athens, GA 30601

Telephone: +1 (706) 286-8234  
+1 (706) 286-8248

[Refstds@noramco.com](mailto:Refstds@noramco.com)

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