

Oxycodone/Oxymorphone



Blood ELISA

Catalog # 221B-0096 (96 Tests)
Catalog # 221B-0480 (480 Tests)
Catalog # 221B-4800 (4800 Tests)

Brand Name(s): ETH-Oxydose, M-Oxy, OxyContin, Oxyfast, Oxyir, Percolone, Roxicodone, Roxicodone Intensol, Opana, Numorphan

Chemical Name: Oxycodone: 4,5 α -epoxy-14-hydroxy-3-methoxy-17-methylmorphinan-6-one
Oxymorphone: 4,5 α -epoxy-3,14-dihydroxy-17-methylmorphinan-6-one

Molecular Formula: (Oxycodone) C₁₈H₂₁NO₄ (Oxymorphone) C₁₇H₁₉NO₄

Description: Oxycodone is white, odorless crystalline powder developed in Germany in 1916 derived from the opium alkaloid, thebaine.¹ Oxymorphone, while a metabolite of oxycodone is also available as a prescription drug. Both are Schedule II controlled substances.

Indications: Oxycodone is frequently used to manage pain after surgery and is very effective for moderate to severe chronic pain. Oxymorphone is indicated for the relief of moderate to severe pain and as a preoperative medication to alleviate apprehension, maintain anesthesia, and as an obstetric analgesic.

Use: Pain reliever

Form(s): Oxycodone: Tablet, Capsules, Concentrate, Intravenous, Intramuscular and Intranasal
Oxymorphone: Tablet, Suppository, Injectable

Dosage: Oxycodone: Tablets: 5, 10, 15, 20, and 30 mg. Extended release: 10, 20, 40, and 80 and 160 mg.
Capsules: 5 mg. Solution: 5 mg/ml, 20 mg/ml.
Oxymorphone: Tablets: 5 and 10 mg, Extended release: 5, 7.5, 10, 15, 20, 30, and 40 mg

Warnings and Precautions: Oxycodone/Oxymorphone may cause respiratory depression, apnea, respiratory arrest, circulatory depression, hypotension or shock.

Adverse Reactions: The most frequent include: constipation, nausea, somnolence, dizziness, vomiting, pruritus, headache, dry mouth, sweating, and asthenia.

Length of Use: Both are recommended for short term use, not lasting more than a few weeks at a time.

Elimination half life: Oxycodone: 3-4.5 hours
Oxymorphone: 7-9 hours

Street Names : Hillbilly Heroin, Killer, OC, Oxy, Oxycoffin, Oxycotton, Blues, Biscuits, Blue Heaven, New Blues, Octagons, Stop Signs, Pink, Pink Heaven, Pink Lady, Mrs O, OM, Pink O, The O Bomb

Abuse and Diversion: Oxycodone and oxymorphone are sought by drug abusers, people with addiction disorders and are subject to criminal diversion. They are often used by crushing, chewing, snorting, or injection. The uncontrolled delivery can result in overdose and death. They sell on the black market from \$25 to \$50 per tablet.²

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Oxycodone/Oxymorphone

Precision (n=8)			
Oxycodone Concentration (ng/mL)	Mean Absorbance	Standard Deviation	Coefficient of Variation (%)
0	3.64	0.048	1.33
5	2.455	0.043	1.75
10	1.527	0.053	3.48
25	0.807	0.043	5.34

Accuracy (n=45) Cut off:20 ng/mL		
Sensitivity: 100%	Specificity: 100%	Accuracy: 100%

LC-MS/MS		
	Positive	Negative
EIA Positive	21	0
Negative	0	24

Cross Reactivity (ng/mL)			
Analyte	Concentration (ng/mL)	Oxycodone Equivalents	% Cross Reactivity
Morphine	500	2	0.4
Codeine	1000	5	0.5
Dihydrocodeine	500	5	1
Hydromorphone	500	15	3
Hydrocodone	100	10	10
	500	25	5
Oxymorphone	50	45	90
Norcodeine	5000	ND	ND
Normorphine	10000	ND	ND
Noroxycodone	1000	25	2.5
Morphine 3-gluc.	10000	15	0.15
Meperidine	5000	ND	ND
Naloxone	10000	15	0.15

(1) Kalso, E (May 2005). "Oxycodone". Journal of Pain and Symptom Management 29 (5S): S47-S56. doi:10.1016/j.jpainsymman.2005.01.010

(2) http://www.addictionsearch.com/treatment_articles/article/oxycodone-addiction_14.html



Blood

