

METHYLERGONOVINE MALEATE- methylergonovine tablet
Amneal Pharmaceuticals NY LLC

Methylergonovine Maleate Tablets USP, 0.2 mg

Rx only

DESCRIPTION

Methylergonovine maleate, USP is a semi-synthetic ergot alkaloid used for the prevention and control of postpartum hemorrhage.

Methylergonovine maleate, USP is available in tablets for oral ingestion containing 0.2 mg methylergonovine maleate, USP.

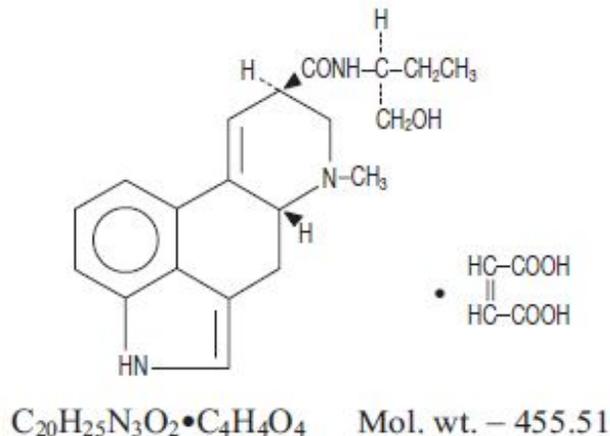
Tablets

Active Ingredient: methylergonovine maleate, USP, 0.2 mg.

Inactive Ingredients: corn starch, lactose monohydrate, microcrystalline cellulose, povidone, stearic acid, and tartaric acid.

Chemically, methylergonovine maleate, USP is designated as ergoline-8-carboxamide, 9,10-didehydro-*N*-[1-

(hydroxymethyl)propyl]-6-methyl-, [8β(*S*)]-, (*Z*)-2-butenedioate (1:1) (salt). Its structural formula is:



CLINICAL PHARMACOLOGY

Mechanism of Action

Methylergonovine maleate acts directly on the smooth muscle of the uterus and increases the tone, rate, and amplitude of rhythmic contractions. Thus, it induces a rapid and sustained tetanic uterotonic effect which shortens the third stage of labor and reduces blood loss.

Pharmacodynamics

The onset of action after IV administration is immediate; after IM administration, 2 to 5 minutes, and after oral administration, 5 to 10 minutes.

Pharmacokinetics

Pharmacokinetic studies following an IV injection have shown that methylergonovine is rapidly distributed from plasma to peripheral tissues within 2 to 3 minutes or less. The bioavailability after oral administration was reported to be about 60% with no accumulation after repeated doses. During delivery, with intramuscular injection, bioavailability increased to 78%. Ergot alkaloids are mostly eliminated by hepatic metabolism and excretion, and the decrease in bioavailability following oral administration is probably a result of first-pass metabolism in the liver.

Bioavailability studies conducted in fasting healthy female volunteers have shown that oral absorption of a 0.2 mg methylergonovine tablet was fairly rapid with a mean peak plasma concentration of $3,243 \pm 1,308$ pg/mL observed at 1.12 ± 0.82 hours. A delayed gastrointestinal absorption (T_{max} about 3 hours) of methylergonovine maleate tablet might be observed in postpartum women during continuous treatment with this oxytocic agent.

For a 0.2 mg intramuscular (IM) injection, a mean peak plasma concentration of $5,918 \pm 1,952$ pg/mL was observed at 0.41 ± 0.21 hours. The extent of absorption of the tablet, based upon methylergonovine plasma concentrations, was found to be equivalent to that of the IM solution given orally, and the extent of oral absorption of the IM solution was proportional to the dose following administration of 0.1 mg, 0.2 mg, and 0.4 mg. When given intramuscularly, the extent of absorption of methylergonovine maleate solution was about 25% greater than the tablet. The volume of distribution ($V_{d_{SS}/F}$) of intramuscularly administered methylergonovine was calculated to be 56.1 ± 17.0 liters, and the plasma clearance ($CL_{p/F}$) was calculated to be 14.4 ± 4.5 liters per hour.

The decline of plasma level of intramuscularly administered methylergonovine was biphasic with a mean elimination half-life of 3.39 hours (range 1.5 to 12.7 hours).

INDICATIONS AND USAGE

Following delivery of the placenta, for routine management of uterine atony, hemorrhage and subinvolution of the uterus. For control of uterine hemorrhage in the second stage of labor following delivery of the anterior shoulder.

CONTRAINDICATIONS

Hypertension; toxemia; pregnancy; and hypersensitivity.

WARNINGS

General

This drug should not be administered I.V. routinely because of the possibility of inducing sudden hypertensive and cerebrovascular accidents. If I.V. administration is considered essential as a lifesaving measure, methylergonovine maleate should be given slowly over a period of no less than 60 seconds with careful monitoring of blood pressure. Intra-arterial or periarterial injection should be strictly avoided.

Caution should be exercised in the presence of impaired hepatic or renal function.

Coronary artery disease

Patients with coronary artery disease or risk factors for coronary artery disease (e.g., smoking, obesity, diabetes, high cholesterol) may be more susceptible to developing myocardial ischemia and infarction associated with methylergonovine-induced vasospasm.

Risk of Adverse Reactions or Reduced Therapeutic Effect Due to Drug Interactions

The concomitant use of methylergonovine maleate and certain drugs may result in potentially significant drug interactions, some of which may lead to adverse reactions or reduced therapeutic effect of methylergonovine maleate or the concomitant drug (see **CONTRAINDICATIONS** and **DRUG INTERACTIONS**).

Medication errors

Inadvertent administration of methylergonovine maleate to newborn infants has been reported. In these cases of inadvertent neonatal exposure, symptoms such as respiratory depression, convulsions, cyanosis and oliguria have been reported. Usual treatment is symptomatic. However, in severe cases, respiratory and cardiovascular support is required.

Methylergonovine maleate has been administered instead of vitamin K and Hepatitis B vaccine, medications which are routinely administered to the newborn. Due to the potential for accidental neonatal exposure, methylergonovine maleate injection should be stored separately from medications intended for neonatal administration.

PRECAUTIONS

General

Caution should be exercised in the presence of sepsis, obliterative vascular disease. Also use with caution during the second stage of labor. The necessity for manual removal of a retained placenta should occur only rarely with proper technique and adequate allowance of time for its spontaneous separation.

Drug Interactions

CYP 3A4 Inhibitors (e.g., Macrolide Antibiotics and Protease Inhibitors)

There have been rare reports of serious adverse events in connection with the co-administration of certain ergot alkaloid drugs (e.g., dihydroergotamine and ergotamine) and potent CYP 3A4 inhibitors, resulting in vasospasm leading to cerebral ischemia and/or ischemia of the extremities. Although there have been no reports of such interactions with methylergonovine alone, strong and moderate CYP 3A4 inhibitors should not be co-administered with methylergonovine. Examples of some of the strong CYP 3A4 inhibitors include saquinavir grapefruit juice, nefazodone, macrolide antibiotics (e.g., troleandomycin, clarithromycin), HIV protease or reverse transcriptase inhibitors (e.g., ritonavir, indinavir, nelfinavir) or azole antifungals (e.g., ketoconazole, itraconazole, voriconazole). Moderate inhibitors include fluconazole, fluvoxamine and clotrimazole.

Weak CYP 3A4 inhibitors should be administered with caution. Weak inhibitors include chlorzoxazone, cilostazol, and ranitidine. These lists are not exhaustive, and the prescriber should consider the effects on CYP 3A4 of other agents being considered for concomitant use with methylergonovine.

CYP3A4 inducers

Drugs (e.g. nevirapine, rifampin) that are strong inducers of CYP3A4 are likely to decrease the pharmacological action of methylergonovine maleate.

Beta-blockers

Caution should be exercised when methylergonovine maleate is used concurrently with beta-blockers. Concomitant administration with beta-blockers may enhance the vasoconstrictive action of ergot alkaloids.

Anesthetics

Anesthetics like halothane and methoxyflurane may reduce the oxytocic potency of methylergonovine maleate.

Glyceryl trinitrate and other antianginal drugs

Methylergonovine maleate produces vasoconstriction and can be expected to reduce the effect of glyceryl trinitrate and other antianginal drugs.

No pharmacokinetic interactions involving other cytochrome P450 isoenzymes are known.

Caution should be exercised when methylergonovine maleate is used concurrently with other vasoconstrictors, ergot alkaloids, or prostaglandins.

Carcinogenesis, Mutagenesis, Impairment of Fertility

No long-term studies have been performed in animals to evaluate carcinogenic potential. The effect of the drug on mutagenesis or fertility has not been determined.

Pregnancy

Use of Methylergonovine Maleate is contraindicated during pregnancy because of its uterotonic effects (see **INDICATIONS AND USAGE**).

Animal reproductive studies have not been conducted with methylergonovine maleate. It is not known whether methylergonovine maleate can cause fetal harm or can affect reproductive capacity.

Labor and Delivery

The uterotonic effect of methylergonovine maleate is utilized after delivery to assist involution and decrease hemorrhage, shortening the third stage of labor. Caution should be exercised during the second stage of labor. The necessity for manual removal of a retained placenta should occur only rarely with proper technique and adequate allowance of time for its spontaneous separation.

Nursing Mothers

Mothers should not breast-feed during treatment with methylergonovine maleate and at

least 12 hours after administration of the last dose. Milk secreted during this period should be discarded. Methylergonovine maleate may produce adverse effects in the breast-feeding infant. Methylergonovine maleate may also reduce the yield of breast milk.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

Geriatric Use

Clinical studies of methylergonovine maleate did not include sufficient number of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in response between the elderly and younger patients. In general dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

Hepatic Impairment

No studies have been performed in subjects with hepatic impairment. Methylergometrine is mostly eliminated by hepatic metabolism and excretion. Use with caution in patients with hepatic impairment.

Renal Impairment

No studies have been performed in subjects with renal impairment. Renal excretion contributes to the elimination of methylergometrine and its metabolites. Use with caution in patients with renal impairment.

ADVERSE REACTIONS

Clinical trials experience

Common Adverse Reactions

The most common adverse reaction is hypertension associated in several cases with seizure and/or headache. Hypotension has also been reported. Abdominal pain (caused by uterine contractions), nausea and vomiting have occurred occasionally.

Rare Adverse Reactions

Rarely observed reactions have included: acute myocardial infarction, transient chest pains, vasoconstriction, vasospasm, coronary arterial spasm, bradycardia, tachycardia, dyspnea, hematuria, thrombophlebitis, water intoxication, hallucinations, leg cramps, dizziness, tinnitus, nasal congestion, diarrhea, diaphoresis, palpitation, rash, and foul taste.

There have been rare isolated reports of anaphylaxis, without a proven causal relationship to the drug product.

Postmarketing Experience

The following adverse drug reactions have been derived from post-marketing experience

with methylergonovine maleate via spontaneous case reports. Because these reactions are reported voluntarily from a population of uncertain size, it is not possible to reliably estimate their frequency which is therefore categorized as not known.

Nervous system disorders

Cerebrovascular accident, paraesthesia

Cardiac disorders

Ventricular fibrillation, ventricular tachycardia, angina pectoris, atrioventricular block

To report SUSPECTED ADVERSE REACTIONS, contact Amneal Pharmaceuticals at 1-877-835-5472 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG ABUSE AND DEPENDENCE

Methylergonovine maleate has not been associated with drug abuse or dependence of either a physical or psychological nature.

OVERDOSAGE

Symptoms of acute overdose may include: nausea, vomiting, oliguria, abdominal pain, numbness, tingling of the extremities, rise in blood pressure, in severe cases followed by hypotension, respiratory depression, hypothermia, convulsions, and coma.

Because reports of overdose with methylergonovine maleate are infrequent, the lethal dose in humans has not been established. The oral LD₅₀ (in mg/kg) for the mouse is 187, the rat 93, and the rabbit 4.5. Several cases of accidental methylergonovine maleate injection in newborn infants have been reported, and in such cases 0.2 mg represents an overdose of great magnitude. However, recovery occurred in all but one case following a period of respiratory depression, hypothermia, hypertonicity with jerking movements, and convulsions.

Also, several children 1 to 3 years of age have accidentally ingested up to 10 tablets (2 mg) with no apparent ill effects. A postpartum patient took 4 tablets at one time in error and reported paresthesias and clamminess as her only symptoms.

Treatment of acute overdose is symptomatic and includes the usual procedures of:

1. removal of offending drug by inducing emesis, gastric lavage, catharsis, and supportive diuresis.
2. maintenance of adequate pulmonary ventilation, especially if convulsions or coma develop.
3. correction of hypotension with pressor drugs as needed.
4. control of convulsions with standard anticonvulsant agents.
5. control of peripheral vasospasm with warmth to the extremities if needed.

DOSAGE AND ADMINISTRATION

Orally

The recommended dosage of methylergonovine maleate is One tablet, 0.2 mg, orally 3 or 4 times daily in the puerperium for a maximum of 1 week.

HOW SUPPLIED

Tablets

Methylergonovine Maleate Tablets USP, **0.2 mg** are available as white round, biconvex tablets, debossed “60” on one side and “A” on the other side.

They are supplied as follows:

Bottles of 12 with child-resistant closure

NDC 69238-1605-2

Bottles of 28 with child-resistant closure

NDC 69238-1605-8

Store and Dispense

Tablets: Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature]. Store in a tight, light-resistant container.

Distributed by:

Amneal Pharmaceuticals LLC

Bridgewater, NJ 08807

Rev. 06-2025-01

PRINCIPAL DISPLAY PANEL

NDC 69238-1605-2

Methylergonovine Maleate Tablets USP, 0.2 mg

Rx Only

12 Tablets

Amneal Pharmaceuticals LLC

NDC 69238-1605-2

Methylergonovine Maleate Tablets, USP

0.2 mg

Rx only
12 Tablets



Each tablet contains:
Methylergonovine Maleate 0.2 mg

Usual Dosage:
See package insert.

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

Dispense in tight, light-resistant container.

Keep this and all drugs out of the reach of children.

Distributed by: **Amneal Pharmaceuticals LLC**
Bridgewater, NJ 08807

Rev. 05-2018-00


N 3 69238 16052 9

1.5" x 0.75"
Non-Varnish Area for
Lot No. and Exp. Date

NDC 69238-1605-8

Methylergonovine Maleate Tablets USP, 0.2 mg

Rx Only

28 Tablets

Amneal Pharmaceuticals LLC

NDC 69238-1605-8

Methylergonovine Maleate Tablets, USP

0.2 mg



Rx only
28 Tablets



Each tablet contains:

Methylergonovine Maleate 0.2 mg

Usual Dosage:

See package insert.

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

Dispense in tight, light-resistant container.

Keep this and all drugs out of the reach of children.

Distributed by: **Amneal Pharmaceuticals LLC**
Bridgewater, NJ 08807

Rev. 05-2018-00



1.5" x 0.75"
Non-Varnish Area for
Lot No. and Exp. Date

METHYLERGONOVINE MALEATE

methylergonovine tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:69238-1605
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
METHYLERGONOVINE MALEATE (UNII: IR84JPZ1RK) (METHYLERGONOVINE - UNII:W53L6FE61V)	METHYLERGONOVINE MALEATE	0.2 mg

Inactive Ingredients

Ingredient Name	Strength
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
POVIDONE (UNII: FZ989GH94E)	
STARCH, CORN (UNII: O8232NY3S)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
TARTARIC ACID (UNII: W4888I119H)	

Product Characteristics

Color	white (White)	Score	no score
Shape	ROUND (Round, biconvex tablets)	Size	6mm
Flavor		Imprint Code	60;A
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:69238-1605-2	12 in 1 BOTTLE; Type 0: Not a Combination Product	09/12/2018	
2	NDC:69238-1605-8	28 in 1 BOTTLE; Type 0: Not a Combination Product	09/12/2018	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA211483	09/12/2018	

Labeler - Amneal Pharmaceuticals NY LLC (123797875)

Establishment

Name	Address	ID/FEI	Business Operations
Amneal Pharmaceuticals of New York, LLC		123797875	analysis(69238-1605) , label(69238-1605) , manufacture(69238-1605) , pack(69238-1605)

Revised: 6/2025

Amneal Pharmaceuticals NY LLC