

## Certificate of Analysis

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**Product Name:** Methylethergometrine maleate

**Catalog No.:** 0549

**Batch No.:** 1

CAS Number: 57432-61-8

EC Number: 204-027-0

IUPAC Name: [8β(S)]-9,10-Didehydro-*N*-[1-(hydroxymethyl)propyl]-6-methylethergoline-8-carboxamide maleate

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>25</sub>N<sub>3</sub>O<sub>2</sub>·C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

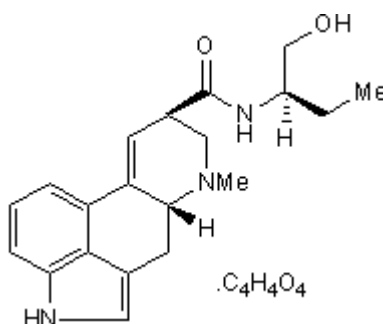
**Batch Molecular Weight:** 455.51

**Physical Appearance:** Off White solid

**Solubility:** water to 25 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.7 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

**Melting Point:** Between 212 - 214°C(Dec)

**HPLC:** Shows 99.6% purity

**<sup>1</sup>H NMR:** Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen		
	Theoretical	Found	
	63.28	62.82	6.41
			6.49
			9.22
			9.21

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**Product Name:** Methylergometrine maleate

**Catalog No.:** 0549

**Batch No.:** 1

CAS Number: 57432-61-8

EC Number: 204-027-0

IUPAC Name: [8β(S)]-9,10-Didehydro-*N*-[1-(hydroxymethyl)propyl]-6-methylergoline-8-carboxamide maleate

**Description:**

Active metabolite of methysergide (Cat. No. 1064); uterotonic agent and oxytocic.

**Physical and Chemical Properties:**

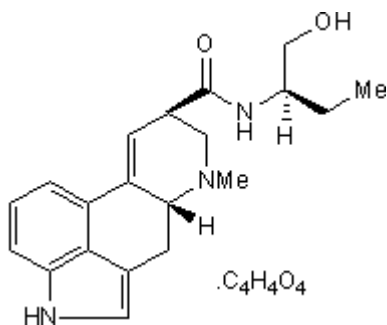
Batch Molecular Formula: C<sub>20</sub>H<sub>25</sub>N<sub>3</sub>O<sub>2</sub>·C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

Batch Molecular Weight: 455.51

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 25 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Pertz** (1993) 5-Hydroxytryptamine (5-HT) contracts the guinea-pig isolated iliac artery via 5-HT<sub>1</sub>-like and 5-HT<sub>2</sub> receptors. *Naunyn Schmiedebergs Arch.Pharmacol.* **348** 558. PMID: 8133899.

**MacLennan and Martin** (1990) Actions of non-peptide ergot alkaloids at 5-HT<sub>1</sub>-like and 5-HT<sub>2</sub> receptors mediating vascular smooth muscle contraction. *Naunyn Schmiedebergs Arch.Pharmacol.* **342** 120. PMID: 2234096.

**Muller-Schweinitzer and Tapparelli** (1986) Methylergometrine, an active metabolite of methysergide. *Cephalalgia* **6** 35. PMID: 3698092.

Merck Index **12** 6147.

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956