



# CERTIFICATE OF ANALYSIS

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## 1. Identification

**CAS Number:**

5967-73-7

**Catalogue Number:**

TRC-M225880

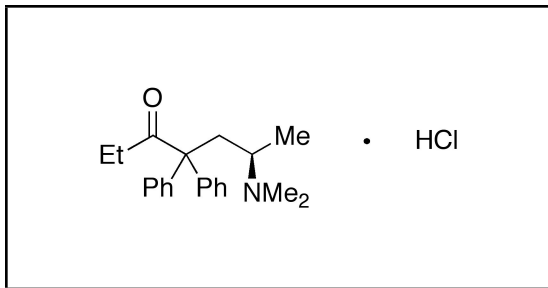
**Product:**

(R)-Methadone Hydrochloride

**Synonyms:**

(6R)-6-(Dimethylamino)-4,4-diphenyl-3-heptanone Hydrochloride; L-6-(Dimethylamino)-4,4-diphenyl-3-heptanone Hydrochloride; (-)-Methadone Hydrochloride; Levomethadone Hydrochloride; Levothyli Hydrochloride; Polamivet Hydrochloride;

**Structure:**



**Molecular Formula:**

C<sub>21</sub>H<sub>28</sub>ClNO • HCl

**Molecular Weight:**

309.45 + (36.46)

**Source of Product:**

Synthetic

## 2. Analytical Information

**Lot Number:**

6-JGC-51-1

**Atmosphere:**

Air

**Melting Point:**

>245.0°C (dec.)

**Solubility**

Chloroform, Ethanol, Methanol

**Appearance of Product:**

Off-White Solid

**Stability**

Not Determined

**Method for Determining Identity:**

<sup>1</sup>H NMR (CD<sub>3</sub>OD) and MS

**Long Term Storage Condition:**

-20°C

**Purity:**

98%

**Shipping Condition**

This Product Is Stable To Be Shipped At Room Temperature

**Additional Information:**

TLC Conditions: SiO<sub>2</sub>; Dichloromethane : Methanol : Ammonium Hydroxide = 9 : 1 : 0.1; Visualized with UV and KMnO<sub>4</sub>; Single Spot, R<sub>f</sub> = 0.30.

<sup>1</sup>H NMR and MS conform to structure.

Chloride Content: 10.24%

Specific Rotation: -154.0° (c = 0.10, Ethanol)

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed.

The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

Philip Chan, Head of Quality Assurance

**QC Test Date**

February 3, 2015

**Retest Date**

January 31, 2022