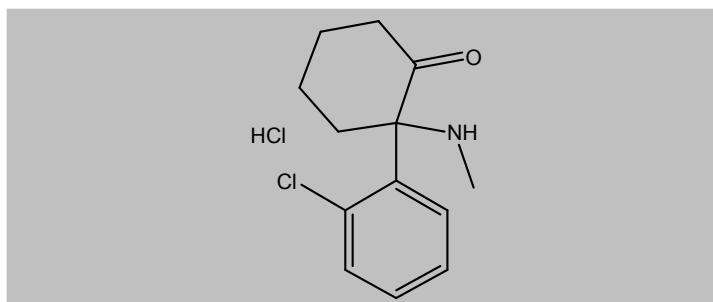


Certificate Of Analysis
Quality Control Testing and Research ApplicationCOA Preparation Date: 17/08/2012
COA Revision Date: 17/08/2015

Product: Ketamine hydrochloride
Cat. No.: BG0226
Batch No.: 0226BG/01
Chemical Name: 2-(Methylamino)-2-(2-chlorophenyl)cyclohexanone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₆ClNO .HCl
Batch Molecular Weight: 274.19
CAS No.: [1867-66-9]
Physical Appearance: White solid
Melting Point: 265° C
Solubility: Soluble to 200 mg/ml in water
Storage: RT
Batch Molecular Structure:

**Product Description:**

A Cyclohexanone derivative used for induction of anesthesia. Ketamine has been reported to produce general as well as local anesthesia. It interacts with N-methyl-D-aspartate (NMDA) receptors, opioid receptors, monoaminergic receptors, muscarinic receptors and voltage sensitive Ca²⁺ channels. Unlike other general anesthetic agents, Ketamine does not interact with GABA receptors.

(DEA Schedule III; Home Office Schedule 4.1; Canadian customers require a CDSA import permit)

References:

1. Annetta et al. (2005) Curr Drug Targets 6:789; 2. Bell et al. (2005) Acta Anaesthesiol Scand 49:1405

- CAUTION - Not fully tested. For Research use only. Not for human use. -

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BG0226 Ketamine hydrochloride

2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: > 99% (complies).

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