

LABORATORY SERVICES BUREAU

Document: Controlled Substances Analysis Manual

Policy Number:
1518

Revision:
4

Subject: CS-SOP-38 Methaqualone

Approved:
Bell, Erica

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1. METHAQUALONE

A. Structure, Empirical Formula, Molecular Weight



Methaqualone
 $C_{16}H_{14}N_2O$
MW 250.3

- B. Synonyms: "Ludes", quaaludes, 2-methyl-3-o-tolylquinazolin-4(3H)-one, methchalonum
- C. Trade Names: Quaalude®
- D. Drug Action: CNS Depressant
- E. Common pharmaceutical/street forms: No medicinal use in the U.S.A. Illicit tablets or capsules containing a beige powder.
- F. Solubility: Chloroform, acetone, slightly soluble in ethanol and methanol, insoluble in diethyl ether and water
- G. Extraction: Dry extraction
- (1) Dissolve in C15 methanol.
 - (2) Filter to remove any insoluble material if necessary.
- H. Chemical indicator tests: Liebermann's: Yellow

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I. TLC:

(1) Mobile Phase:

- (a) System 1: Chloroform:acetone (80:20)
- (b) System 2: Chloroform:methanol (90:10)
- (c) System 3: Methanol:conc. ammonium hydroxide(100:1.5)

(2) Locator: Acidified iodoplatinate, Dragendorff reagent,

J. GC/MS: Analyze using "Drugs1" program.

K. Comments: NA

L. Report as: Methaqualone, a dangerous drug.

M. References:

- (1) Inaba, D. S., Cohen, W. E., Holstein, M.E., Uppers, Downers, All Arounders, 3rd ed., CNS Publications, Inc., Ashland, OR, 1997, pp. 160 and 168.