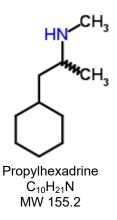
LABORATORY SERVICES BUREAU			
Document: Controlled Substances Analysis Manual	Policy Number: 1550	Revision:	
Subject: CS-SOP-49 Propylhexadrine		Approved: Bell, Erica	
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1. PROPYLHEXADRINE

A. Structure, Empirical Formula, Molecular Weight



- B. Synonyms: N,∞-Dimethylcyclohexaneethaneamine, hexahydrodesoxyephedrine
- C. Trade Names: BenzedrexTM
- D. Drug Action: Adrenergic vasoconstrictor
- E. Common pharmaceutical/street forms: No medicinal use in the U.S.A. Benzedrex™ inhaler, (no longer available in the U.S.A.). The propylhexedrine can be extracted from the inhaler and injected for illicit use.
- F. Solubility: Chloroform, ethanol, methanol, diethyl ether
- G. Extraction: Liquid/liquid extraction
 - (1) Basify with 10% sodium hydroxide.
 - (2) Extract with diethyl ether.
 - (3) Evaporate diethyl ether and reconstitute with C15 methanol.

Note: If it is necessary to extract the propylhexedrine from the inhaler, soak the cotton in hot water, then follow the above liquid/liquid extraction.

- H. Chemical indicator tests:
 - (1) Sodium Nitroprusside: Blue
 - (2) Cobalt thiocyanate/chloroform: Blue with extract

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I. TLC:

(1) Mobile Phase: System 1: Methanol:conc. ammonium hydroxide (100:1.5)

(2) Locator: Acidified iodoplatinate

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

K. Comments: NA

L. Report as: Propylhexedrine, a dangerous drug.

M. References:

(1) Analytical Profiles of Amphetamines and Related Phenethylamines, CND Analytical, Inc., Auburn, AL, 1989.