ADULTERANTS AND SYNTHETIC DRUGS
CHEMICAL DESCRIPTION OF
SYNTHETIC DRUGS TRADED IN BOGOTA, COLOMBIA
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Adulterants and synthetic drugs
Chemical Description of
Synthetic Drugs Traded in
Bogotá-Colombia
In consequence, the traffic of contaminated substances represents another danger, where chemical composition is an enigma for all the people involved in the production-traffic-consumption chain.

**Background**

- There were no technical-scientific studies that will allow to recognize contaminated substances inside synthetic drugs.
- Every sized synthetic drug is reported to the Colombian Drug Observatory (ODC) as Ecstasy.
- Latest studies and investigations point that there is an increase in the Synthetic Drug (SD) consumption in young people.
- There have not been developed intervention processes based in the SD used in the country.
Main Objectives

• Design intervention strategies based in scientific evidence

• Make a chemical description of the synthetic drugs traded in Bogotá

Specific Objectives

1. Standardize a methodology for sampling (Statistics) and synthetic drugs chemical analysis (CG/EM)

2. Design an early intervention strategy based in the results

3. Design a Drug Demand Reduction program based in the results
There was held an intelligence analysis during 2 months.

- 130 trade areas in the whole city.
- 104 sampling spots.
- 330 samples.

**Samples**

- 266 Tablets
- 44 Capsules
- 11 Strips or patches
- 9 Liquids
Gas Chromatography/ Mass Spectrometry

- Extraction with solvents and in acid environment.
- Qualification and Quantification
- Active Principle (ingredient)
- Active and Inactive adulterating
- Vehicles (adjuvant)
- Occluded Solvents

From the obtained extracts from 330 samples, in 260 there were found different substances.
Caffeine was the substance found in major proportion (in 176 samples) equal to 53% of the total.

Only 17% of the samples showed MDMA content.

The following substances in order of appearance are Cocaine (Stimulant) and Levamisole (Dewormer) each one with 41 cases.
COCAIN

• 28% of 41 samples that contain cocaine possess more than 50% of this substance as active principle.

• In 44% of the samples, cocaine is present in percentages among 0 and 2% of the active principle.

• Important concentrations of cocaine as active principle, were found principally in Trips

MDMA CONCENTRATION

• From 330 samples; 58 contain MDMA in a concentration of 25% in average.

• 7 Samples have higher concentration of MDMA 90%.

• 1 Sample has a concentration of 100% MDMA.

• 12 Samples have a concentration between 15% and 50%.

• 35 Samples have a concentration between 0.1% and 15%.

• 3 Samples have a concentration between 50% and 70%.
From 330 samples, in 31 there was found Methamphetamine concentrations.

31 samples are equivalent to 10.3% of the sample universe.

The highest concentration of Methamphetamine was 28.6%.

15.2% is the concentration average of Methamphetamine in 32 samples.
LSD

- In 5 of 330 samples, there were found concentrations of LSD

- 5 samples are equivalent to the 1,5 of the established universe in the sampling.

- The highest concentration of LSD was 17.2.

- 9.4 is the average of LSD concentration in 5 samples.
• The scopolamine appears as active principle in 16 samples and has an approximate participation of 50% in all the cases.

• Majority of the samples that contains scopolamine are commercialized by the name of "Memphis" or "Little angels".
LSD was found in 45% of the total of trips (11) gathered. The concentration of LSD as active principle (active ingredient) it does not overcome 17% of all the cases.
There were found interesting mixtures like:

- Methamphetamine 5.8%
- Phentermine 6.2%
- Caffeine 71.8%
- SILDENAFIL -Viagra 19.1%

Mixed:
- Stimulant
- Anorexigen
- Vasodilator
4-Methoxy methamphetamine 87,1%
MDA 7,3 %
N-Ethyl-4-methoxy-a-metilfenetilamina (PMEA) 2,4 %

Mixed: Stimulant

4-Metoxi methamphetamine 0,3%
MDMA 0,4%
Caffeine 46,3%
Benadryl 0,6%
Levamisole 1,0%
(product of descomposition of ranitidine) 0,7%
Cocaine 2,0%
Carbamazepine 39,1%

Mixed: Stimulant
   Antihistamine
   Dewormer
   Anticonvulsive
Ketamine 48.1%
Caffeine 20.9%
Levamisole 37.7%

Mixed:
Anesthetic
Stimulant
Dewormer

Caffeine 1.4%
Methyl Scopolamine Bromide 5.7%
Scopolamine – H2O 3.4%
Scopolamine 67.5%
Scopolamine acetat 11.0%

Mixed:
Stimulant
Antispasmodic and tranquilizer
### Stimulant

- **MDMA**: 8.3%
- **Caffeine**: 5.4%
- **Ketamine**: 35.9%
- **Xylazine**: 12.4%
- **Levamisole**: 15.3%

**Mixed**: Sedative, muscle relaxant and analgesic Dewormer

### Analgesic

- **Acetaminophen**: 3.1%
- **Caffeine**: 44.1%
- **Cocaine**: 0.2%
- **Chlorcyclizine**: 0.2%
- **Monoacetylmorphine**: 0.7%
- **Diacetylmorphine**: 1.6%
- **Hydroxyzine**: 47.7%
- **Johimbe**: 1.2%

**Mixed**: Stimulant Tranquilizer Anxiolytic
Thank you

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