

CHIRAL METHAMPHETAMINE INTERPRETATION

METHAMPHETAMINE ANALYSIS

A chiral analysis will report the percentage of the *d*-form of methamphetamine. A result of less than 20% *d*-methamphetamine of the total is consistent with the following:

1. Use of Vicks Vapor Inhaler containing *l*-Methamphetamine (also known as levo-methamphetamine).
2. A prescription for Selegiline which is prescribed for treating Parkinson's disease and major depressive disorder. Selegiline is metabolized by the body to produce *l*-Methamphetamine.

A result of greater than 20% *d*-methamphetamine of the total is consistent with the following:

1. A prescription for Desoxyn or Methedrine.
2. A prescription for Benzphetamine. This drug is marketed as Didrex, and is prescribed for obesity. Benzphetamine is metabolized by the body to produce *d*-Methamphetamine.
3. The *d*-Methamphetamine is from an illicit production source (i.e. crystal meth).

Reference: Evaluation of the 20% D-Methamphetamine Requirement for Determining Illicit Use of Methamphetamine in Urine. Journal of Analytical Toxicology (2012) 36 (6): 399-404

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