

Common Cuts and Buffs found in drugs using FTIR

<u>Substance</u>	<u>Description</u>	<u>Drugs seen in</u>
Caffeine	<ul style="list-style-type: none"> - Natural, mild stimulant common in coffee, tea, and chocolate. - Injected as medication to treat severe headaches in adults and breathing problems in newborns. - When taken in high doses, or for long periods of time, it may cause nausea, headaches, restlessness, insomnia, and anxiety. 	Common cut for all drugs
Mannitol	<ul style="list-style-type: none"> - Natural sweetener found in fruits and vegetables and commonly used in diabetic-friendly foods. - A diuretic that is rapidly excreted in urine when injected or taken orally. - Used to treat kidney failure (by increasing urine flow) and reduce swelling in eyes and brain. - May cause mild dehydration when taken in high amounts. 	Common cut for all drugs
Inositol	<ul style="list-style-type: none"> - Type of sugar that naturally occurs in fruits, beans, grains, and nuts. - Considered a pseudovitamin. It may cause nausea when ingested in high doses. 	Opioids, Cocaine
Erythritol	<ul style="list-style-type: none"> - Sweetener used in low-sugar foods. Found in many fruits and vegetables. - No adverse effects found when administered orally or intravenously. - It does not get metabolized and is excreted in urine. 	Opioids
Polyethylene Glycol (PEG)	<ul style="list-style-type: none"> - Sweetener used in low-sugar foods. - Found in many Pharmaceutical filler (excipient) and common laxative - When taken orally in high doses it may cause nausea and abdominal pain. - When administered intravenously it is excreted almost completely in the urine. 	Opioids

<u>Substance</u>	<u>Description</u>	<u>Drugs seen in</u>
Xylitol	<ul style="list-style-type: none"> - Sweetener commonly used by people avoiding sugar. - Administered orally to treat dental caries as it does not promote tooth decay. - Used intravenously as an energy source during IV nutrition. - Generally nontoxic. 	Opioids
Ascorbic Acid (Vitamin C)	<ul style="list-style-type: none"> - Naturally produced in fruits and vegetables. - Commonly used to treat and prevent the common cold and several infections. - Generally nontoxic, but may cause nausea, headaches, stomach cramps, and kidney stones when taken in doses higher than 2g/day. 	Opioids
Phenacetin (Super Buff)	<ul style="list-style-type: none"> - Pharmaceutical drug used as a painkiller and to treat fever before acetaminophen was invented. - Taken off the market in 1978 because it was shown to cause certain cancers when taken for long periods of time. 	Cocaine
Dimethyl-Sulfone (MSM)	<ul style="list-style-type: none"> - Supplement naturally occurring in small amounts. - Used to treat muscle damage and arthritic pain. - Generally nontoxic when taken orally but may cause nausea and headaches when ingested in high doses. - Commonly added to meth because it bulks out the size of a whole crystal, but appears as a cut in other crystalline drugs. 	Methamphetamine & any crystals
Levamisole	<ul style="list-style-type: none"> - Antiparasitic drug used to treat bacterial, parasitic, and viral infections. - Taken off the American market in 2000 due to its side effects: it can cause agranulocytosis (reduction in number of white blood cells) in humans when taken for long periods of time. 	Cocaine
Microcrystalline Cellulose (MCC)	<ul style="list-style-type: none"> - Common filler in pharmaceuticals and pressed tablets, obtained from purified plant material. - Generally nontoxic, but may harm the digestive system and interfere with nutrient absorption when ingested in high doses. 	Pressed tablets & pharmaceuticals

List of most common cuts and buffs found in drugs. These substances were found in 1% or more of the samples tested by FTIR spectroscopy
Please be aware that side effects of these substances are dependent on dose and route for drug administration.