

CS 4.1 Controlled Substances: Evidence Matrices General Testing Guidelines and Suggestions

Substance Form	Extraction solvent							Photos	Weight	Solubility	MiScope	GC/MS	FTIR	Other:
	0	1	2	3	4	5	6							
Plant Material (likely marihuana)		x						x	x	n/a	x	x	n/a	
Plant Material (not marihuana)		x	x			x		x	x	n/a	n/a	x	n/a	
Cigars/Cigarettes		x	x					x	n/a	n/a	x+	x	n/a	
Rock (likely cocaine)	x							x	x	x	n/a	x	x*	
Powder (likely cocaine)	x							x	x	x	n/a	x	n/a**	
Powder (other than cocaine)	x							x	x	n/a	n/a	x	n/a	borate buffer extraction if initially negative by GC/MS
Tablets - manufactured (all)	x							x	n/a	n/a	n/a	x	n/a	
CS w/ acetaminophen					x							x		Note BB extraction is not required if the drug of interest is found running without extraction
CS (low dose)					x							x		
CS (other)	x											x		borate buffer extraction if initially negative by GC/MS #
Tablets- clandestine (all)	x						x	x	n/a	n/a	n/a	x	n/a	borate buffer extraction if initially negative by GC/MS
Mushrooms						x		x	x	n/a	n/a	x	n/a	
Liquid Pharmaceutical Preparations	x		x		x	x	x	x	n/a	n/a	n/a	x	n/a	Extraction will vary depending on matrix
Steroids in Oil					x			x	n/a	n/a	n/a	x	n/a	Volume taken
Liquids	x							x	n/a	n/a	n/a	x	n/a	Volume taken
Food Stuff (contain oils)					x			x	n/a	n/a	n/a	x	n/a	LC may be needed depending on the expected substance
Food Stuff (no oils)			x					x	n/a	n/a	n/a	x	n/a	
Blotter paper			x					x	n/a	n/a	n/a	x	n/a	
Paraphernalia (residues)		x	x			x	x	x	n/a	n/a	n/a	x	n/a	multiple solvents can be used; at discretion of analyst

* = if insoluble in water or partially insoluble in water

** = if soluble in water, if partially soluble need FTIR

= if manufactures marking indicates a substance that does not GC/MS Borate Buffer extraction is not required

+ = to report marihuana MiScope is required to report Δ-9-THC MiScope is not required

0 = Methanol, Ethyl Acetate or appropriate Solvent

1 = 1:1 Petroleum ether/methanol

2 = Methanol, Ethyl Acetate or appropriate Solvent

3 = borate buffer

4 = methanol/hexane

5 = ethanol

6 = other appropriate solvent dependent on suspected substance