**Effective: 8/6/2020** 

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

Substance Form	Extraction solvent (see below)						low)						
	0	1	2	3	4	5	6	Photos	Weight	MiScope®	GC/MS	FTIR	Other:
Plant Material (visually consistent with marijuana)	X	X					X	X	X	X	X		other solvents if suspected laced drugs
Plant Material (not visually consistent with marijuana)	Х	X					X	X	X <sup>++</sup>	X <sup>++</sup>	X		other solvents if suspected laced drugs
Cigars/Cigarettes		X	X					X		X <sup>+</sup>	X		
Rock (possibly cocaine)	X							X	X		X	X	
Powder (possibly cocaine)	х							X	X	1	x	X	
Powder (other than cocaine)	X							x	x		х	х	Borate Buffer extraction if initially negative by GC/MS
Tablets - manufactured (all)	X							X			X		Internet/Computer/Book Searches
CS w/ acetaminophen				x				X	x		x		Borate Buffer extraction is not required if the analyte of interest can be identified without an extraction
CS (low dose )				X				Х	X		X	X	
CS (other)	X							x	X		X	X	Borate Buffer extraction if initially negative by GC/MS
Tablets- clandestine (all)	x						X	х			X		Borate Buffer extraction if initially negative by GC/MS
Mushrooms	Х		X			X		X			X		
Liquid Pharmaceutical Preparations	Х		X		X	X	Х	X			X		Extraction will vary depending on matrix
Steroids in Oil					X			X			X		Volume taken but not usually reported
Liquids	X						4	x			X		Volume taken but not usually reported
Food Stuff (contain oils)					x			X			X		LC/MS may be needed (if validated)
Food Stuff (no oils)	x		X					Х			X		
Blotter paper			X					X			X		
Paraphernalia (residues)	х	x	x			X	X	X	D 66		X		multiple solvents can be used; at discretion of analyst

<sup># =</sup> if manufacturer marking indicates a certain analyte is not readily detected using GC/MS, then a Borate Buffer extraction is optional

Blank Space: Optional / Not routinely performed

- 0 = Methanol
- 1 = Petroleum Ether/Methanol (1:1)
- 2 = Ethyl Acetate
- 3 = Extraction (e.g., Borate Buffer)
- 4 = Methanol/Hexane
- 5 = Ethanol
- 6 = other appropriate solvent dependent on suspected substance

Note: The above are suggested guidelines and are not required to be performed/used unless specifically stated.

<sup>+ =</sup> To report marijuana then cystolithic-like hair presence by microscopy (e.g., MiScope®) is required; To report just Δ9-THC then cystolithic-like hair presence by microscopy is not required

<sup>++ =</sup> If THC is identified then this will be done