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

	Ext	tracti	ion s	solv	ent								
$\overline{}$		Extraction solvent											
0	1	2	3	4	5	6	Photos	Weight	Solubility	MiScope	GC/MS	FTIR	Other:
	х						Х	Х	n/a	Х	Х	n/a	
	х	Х			х		Х	Х	n/a	n/a	Х	n/a	
	х	Х					Х	n/a	n/a	χ+	Х	n/a	
х							Х	Х	Х	n/a	Х	X*	FTIR
Х							Х	Х	Х	n/a	х	n/a**	FTIR
													borate buffer extraction if
													initially negative by GC/MS,
							Х	Х					also may use FTIR
Х							Х	n/a	n/a	n/a	Х	n/a	
													Note BB extraction is not
													required if the drug of interest
			v								v		is found running without extraction
								_					FTIR
			^								^		borate buffer extraction if
													initially negative by GC/MS #,
х											х		also may use FTIR
													borate buffer extraction if
Х						X	X	n/a	n/a	n/a	Х	n/a	initially negative by GC/MS
					Х		Х	Х	n/a	n/a	Х	n/a	
									n/a	n/a			Extraction will vary depending
Х		Х		Х	X	Х	Х				Х	n/a	on matrix
				X			X	n/a	n/a	n/a	Х	n/a	Volume taken
Х							Х	n/a	n/a	n/a	Х	n/a	Volume taken
													LC may be needed depending
				х			Х	n/a	n/a	n/a	Х	n/a	on the expected substance
		X					Х	n/a	n/a	n/a	Х	n/a	
	1	X					Х	n/a	n/a	n/a	Х	n/a	
													multiple solvents can be used;
	Х	Х			Х	Х	Х	n/a	n/a	n/a	Х	n/a	at discretion of analyst
	x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X	X X	X X X X X N/a X X X X X X X X X X X X X X X X X X N/a X <td< td=""><td>x x x x n/a n/a x x x x x x x x x x x x x x x x n/a n/a x x x x x n/a x x x x x n/a x x x x n/a n/a x x x n/a n/a x x x x n/a n/a</td><td>x x x x x n/a n/a x+ x x x x x x n/a n/a x x x x x n/a n/a n/a x x x x x n/a n/a n/a x x x x x x n/a n/a x x x x x n/a n/a n/a x x x x x x n/a n/a x x x x x x n/a n/a x x x x x x n/a n/a</td><td>x x x x x n/a n/a x</td></td<> <td>x x x x x n/a n/a x n/a x x x x x x x n/a x x* x x x x x n/a n/a x n/a** x x x x n/a n/a x n/a** x x x x n/a n/a x n/a** x x x x n/a n/a x n/a x x x x x n/a n/a x n/a x x x x x n/a n/a n/a n/a x x x x n/a n/a n/a n/a x x x x n/a n/a n/a n/a x x x x n/a n/a n/a</td>	x x x x n/a n/a x x x x x x x x x x x x x x x x n/a n/a x x x x x n/a x x x x x n/a x x x x n/a n/a x x x n/a n/a x x x x n/a n/a	x x x x x n/a n/a x+ x x x x x x n/a n/a x x x x x n/a n/a n/a x x x x x n/a n/a n/a x x x x x x n/a n/a x x x x x n/a n/a n/a x x x x x x n/a n/a x x x x x x n/a n/a x x x x x x n/a n/a	x x x x x n/a n/a x	x x x x x n/a n/a x n/a x x x x x x x n/a x x* x x x x x n/a n/a x n/a** x x x x n/a n/a x n/a** x x x x n/a n/a x n/a** x x x x n/a n/a x n/a x x x x x n/a n/a x n/a x x x x x n/a n/a n/a n/a x x x x n/a n/a n/a n/a x x x x n/a n/a n/a n/a x x x x n/a n/a n/a

^{* =} 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

^{4 =} methanol/hexane

^{1 = 1:1} Petroleum ether/methanol

^{5 =} ethanol

^{2 =} Methanol, Ethyl Acetate or appropriate Solvent

^{6 =} other appropriate solvent dependent on suspected substance

^{3 =} borate buffer

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