Compound class	Sample pre- treatment	Detection method	Limit of detection	Amount of sample required	Ref
Amino acids	o- phthaldialdehyde/ 2-mercaptoethanol derivatization	High performance liquid chromatography	fM	25 μL	1
Sugars: Monosaccharides and disaccharides	Acid hydrolysis, desalting	High performance anion exchange chromatography- pulsed amperometric detector	nM	~12 mL	2
	Derivatization	GC-MS	nM	1 L	3
Sterols	Solid phase extraction	LC/ESI-MS/MS	рМ	5 L	4

Fatty acids	Solvent extraction	GC-MS	μΜ	90 L	5, 6
Organic acids	Derivatization with 2-nitrophenyl hydrazine and carbodiimine	High pressure liquid chromatography with ion pairing	nM	2 mL	7

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