

investigation	sampling protocol	cell disruption	extraction solution	analytical method
extraction solution efficiency	cold centrifugation	N ₂ +solvent	cold methanol, 60% (w/v)	GC-MS
extraction solution efficiency	cold centrifugation	N ₂ +solvent	cold ethanol, 60% (w/v)	GC-MS
extraction solution efficiency	cold centrifugation	N ₂ +solvent	boling water	GC-MS
extraction solution efficiency	cold centrifugation	N ₂ +solvent	boiling ethanol, 60% (w/v)	GC-MS
extraction solution efficiency	cold centrifugation	N ₂ +solvent	cold formic acid, 1 M	GC-MS
extraction solution efficiency	cold centrifugation	N ₂ +solvent	cold acetonitrile, 100%	GC-MS
extraction solution efficiency	cold centrifugation	N ₂ +solvent	cold methanol, chloroform, water-mixture (4:4:2)	GC-MS
cell disruption	cold filtration	N ₂ +solvent	cold ethanol, 60% (w/v)	LC-MS
cell disruption	cold filtration	homogenizer	cold ethanol, 60% (w/v)	LC-MS
sampling and extraction method (EC determination)	5 min cold centrifugation without washing	N ₂ +solvent	cold ethanol, 60% (w/v)	LC-MS
sampling and extraction method (EC determination)	1 min cold centrifugation without washing	N ₂ +solvent	cold ethanol, 60% (w/v)	LC-MS
sampling and extraction method (EC determination)	cold filtration including washing	N ₂ +solvent	cold ethanol, 60% (w/v)	LC-MS
sampling and extraction method (EC determination)	cold filtration including washing	N ₂ +solvent	cold water	LC-MS
sampling and extraction method (EC determination)	cold filtration including washing	N ₂ +solvent	cold methanol, chloroform, water-mixture (4:4:2)	LC-MS
sampling and extraction method (EC determination)	cold filtration including washing	N ₂ +solvent	boling ethanol, 60% (w/v)	LC-MS
sampling and extraction method (EC determination)	cold filtration including washing	N ₂ +solvent	cold ethanol, 60% (w/v) followed by a second water extraction	LC-MS
sampling and extraction method	cold filtration including washing	N ₂ +solvent	cold ethanol, 60% (w/v) followed by a	LC-MS

(EC determination)			second chloroform extraction	
sampling and extraction method (EC determination)	cold filtration including washing	N ₂ +solvent	cold ethanol, 60% (w/v) followed by a second water extraction	LC-MS
sampling and extraction method (EC determination)	cold filtration without washing	N ₂ +solvent	cold ethanol, 60% (w/v)	LC-MS
sampling and extraction method (EC determination)	N ₂ cooling followed by cold filtration without washing	N ₂ +solvent	cold ethanol, 60% (w/v) by a second acetonitrile extraction	LC-MS
sampling and extraction method (EC determination)	N ₂ cooling followed by cold filtration without washing	N ₂ +solvent	cold ethanol, 60% (w/v) followed by a second water extraction	LC-MS
leakage during N₂ cooling	N ₂ cooling followed by cold filtration without washing	N ₂ +solvent	measurement of the supernatant	GC-MS
leakage during N₂ cooling	direct steril filtration	N ₂ +solvent	measurement of the supernatant	GC-MS