

## Services for companies

### Analyses (examples)

<b>Analyte</b>	<b>Method</b>
<b>Anions</b> (e.g. sulfate, nitrate)	CE-DAD
<b>Cations</b> (e.g. Ca, K, Mg, Mn)	CE-DAD, AAS
<b>Acids</b> (e.g. acetate, lactate, citric acid, malic acid)	CE-DAD, (HPLC)
<b>Phenolic acids</b> (e.g. chlorogenic acid, caffeic acid)	HPLC
<b>Sugars</b> (e.g. glucose, fructose, sucrose)	CE-DAD (HPLC)
<b>Hydroxymethyl furfural, furfural</b>	CE-DAD, HPLC
<b>Yeas cells</b> (total amount)	Flow cytometry (FC), plate count
<b>Bacteria</b> (total amount)	Flow cytometry (FC), plate count
<b>Bacteria</b> (profile)	PCR-CE (DNA-fragments)
<b>Microbial growth curves (automated measurements)</b>	Bioscreen
<b>Fatty acids (methyl esters, FAME)</b>	GC-FID/MSD
<b>Terpenes (profile)</b>	GC-MSD
<b>Vitamin C</b>	HPLC-DAD
<b>Flavonols, Quercetin and myricetin (aglycones)</b>	HPLC-DAD
<b>Anthocyanins</b>	HPLC-DAD
<b>Proanthocyanidins (DMAC and</b>	Spectrophotometry
<b>Antioxidant capacity (ORAC)</b>	Plate reader
<b>Total phenols (Folin Ciocalteau)</b>	Spectrophotometry
<b>Amino acids</b>	HPLC-FD
<b>Protein / nitrogen</b>	Kjeldahl
<b>Total fat</b>	Gravimetric
<b>Dry weight</b> (Total solids / volatile solids; TS/VS, humidity)	Gravimetric
<b>Ash</b>	Gravimetric

*Note! CE-DAD analyses can be performed also as field studies*

### Other laboratory services

#### Development of sensory based measurement technologies for e.g. process controlling

(inc. bacteria, toxicity, metals)

- Electrochemical enzyme and immune sensors, optical SPR sensors

#### Fermentation

Freeze drying, Spray drying, Vacuum drying of solvents, filtration (RO, nano, ultra, micro)

#### Rental of the facilities and researchers

We develop our services measurement methods and analyses utilizing our instrumentation for the companies and to fulfill the needs of our customers