LABORATORY ANALYSIS AND PRICE LIST FOR 2018

Type of analyse	Price fixed part without VAT (EUR)	Price per sample without VAT (EUR)	Notes
Spectrophotometric methods			
Free radical scavenging ability (DPPH$^{\bullet}$ assay)		75	
Free radical scavenging ability ($^{\bullet}$NO assay)		75	
Free radical scavenging ability (HO$^{\bullet}$ assay)		75	
Free radical scavenging ability ($O_2^{\bullet-}$ assay)		75	
Reducing capacity (FRAP assay)	30	50	
Antioxidant capacity (lipid peroxidation inhibition)		75	
Acetylcholinesterase inhibition ability		75	
Determination of total flavonoids content (Al^{3+} assay)	30	50	
Determination of total phenolics content (Folin–Ciocalteu assay)	30	50	
Determination of total anthraquinones content (KOH assay)	30	50	for 1,8–substituted derivatives
Determination of total condensed tannins content (proanthocyanidins)	30	50	
Determination of total monomeric anthocyanins content	30	50	
Determination of nitrite content in meat and meat products	30	50	
Determination of total protein content (by Lowry method)	30	50	
Determination of total azulenes content	30	50	
Quantification of ascorbic acid content (by Ellman method)	30	50	
Quantification of inulin content	30	50	
Recording the UV/VIS spectrum		20	
Quantification of plant phenols	30	50	per compound, non-selective method
Development of a new spectrophotometric method		100	approximate price, the actual price depends on the nature of the analyte and the sample
TLC			
Confirmation of the presence of the compound (comparison with standard)	10	20	following samples 10 EUR
GC–MS			
Determination of methanol in spirits	100	30	
Recording of essential oils chromatograms		30	
Interpretation of essential oils chromatograms (qualitative and semi–quantitative analysis)		150	
Quantification of specific component in essential oil	50	30	for number of samples analyzed at the same time, price per compound per sample is 15 EUR
Headspace GC–MS analysis of volatile compounds in plant material (qualitative analysis)		120	
Headspace GC–MS analysis of residual solvents in oils, cosmetic and pharmaceutical formulation	50	50	per solvent
LC–UV/VIS			
Quantification of compound (e.g. plant phenolics)	40	50	per compound
Quantification of food preservatives (e.g. benzoate, sorbate)	40	50	per compound
Quantification of caffeine in soft drinks	40	50	
Development of quantitative LC–UV/VIS method		100	– minimum price – the actual price depends on the nature of the sample and the analyte – validation is not included in the price – purchase price of standard is not included in the price

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LC–MS, LC–MS/MS			
Quantification of compound (e.g. plant phenolics or other secondary metabolites*)	40	30	– per compound – for number of samples analyzed at the same time, price per compound per sample is 15 EUR
Quantification of phytoestrogens (e.g. isoflavonoids – genistein, daidzein, formononetin)	40	30	– per compound – for number of samples analyzed at the same time, price per compound per sample is 15 EUR
Quantification of Coenzyme Q10 (food, supplements, etc.)	50	40	
Quantification of Vitamin E (food, supplements, etc.)	50	40	
Compound presence confirmation (comparison with standard)		50	by comparison of retention, UV/VIS, MS and MS^n spectra
Qualitative analysis LC–UV/VIS–MS/MS – targeted (partially known composition, basic MS interpretation)		300	– per sample – following similar samples 50 EUR
Qualitative analysis HPLC–UV/VIS–MS/MS – completely unknown sample composition (detailed MS^n interpretation)	150	50–150	– per compound – a.g. herbal extracts, pesticides degradation products, drug metabolites... – price depends on the level of semple complexity
Recording of ESI–MS, MS^2 and pseudo–MS^n spectra of neat compounds	30	50	per compound
Recording of ESI–MS, MS^2 and pseudo–MS^n spectra of compounds in mixture	30	50–200	– per compound – price depends on the level of mixture complexity
Development of quantitative LC–MS or LC–MS/MS method		150	– minimum price per compound – the actual price depends on the nature of the sample and the analyte – validation is not included in the price – purchase price of standard is not included in the price
Detection of illegal substances (tetrahydrocannabinol, morphine, heroin, cocaine) in powder sample or plant material		100	per compound
Specific biochemical analyzes			
Anti-inflammatory activity – *ex vivo* eicosanoids biosynthesis inhibition assay (12–HETE, 12–HHT, TXB_2, PGE_2, $PGF_{2\alpha}$) in human cells	100	300	– per sample – minimal number of samples is 4
Extraction of total RNA		40	
Quantification of RNA/DNA concentration		30	
cDNA synthesis		30	
Quantification of gene expression (qPCR)		35	– per gene – purchase price of primers is not included in the price
Assessment of oxidative stress parameters in tissue (e.g. level of lipid peroxidation, catalase, glutathione peroxidase, glutathione reductase, glutathione S-transferasea and superoxide dismutase enzyme activities, etc.)		30	– per parameter, per sample – for number of samples analyzed at the same time, price per parameter, per sample is 15 EUR
Determination of ALT and ASAT activities		20	– per enzyme, per sample

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Cell culture			
Maintenance of cell culture		350	– per cell culture – maintainance for 30 days – purchase price of cell culture, cell culture medium and components is not included in the price
Titration			
Determination of reducing sugars (according to Bertrand)		50	
Determination of acidity or alkalinity of liquid food		10	
Determination of peroxide value of fats and oils		20	
Determination of chloride (NaCl)		10	
Determination of ascorbic acid		20	
Other analyzes			
Determination of total fat (Soxhlet extraction)		40	
Determination of moisture content (gravimetric)		20	
Determination of pH		5	
Sample preparation			
Extraction (Soxhlet)		30	approximate price, the actual price depends on the quantity of the sample and type of the solvent
Extraction (maceration)		10	approximate price, the actual price depends on the quantity of the sample and type of the solvent
Extraction of secondary metabolites from oil		30	for 3 extractions
Isolation of essential oils (hydrodistillation in a Clevenger–type apparatus)		30	
Fractionation of plant extracts (liquid–liquid extraction)		20	per fraction (solvent)
Evaporation under reduced pressure		10	approximate price, the actual price depends on the type and quantity of the sample
Isolation of sample components by semi-preparative liquid chromatography technique			price depends on the type and quantity of the sample and number of components
Tissue homogenate preparation		5	
Other**			
Basic report on the analysis (results)		5	
Extended report on the analysis (method, results, appendices)		20	
Report on the analysis, adapted for scientific paper		40	
Report on the qualitative LC–MS/MS (with interpretation of the spectra)			price depends on the sample composition
Report on qualitative LC–MS/MS analysis (with the interpretation of spectra), adjusted for scientific paper			price depends on the sample composition
Training of individuals in the domain of LAFIB expertise			price depends on the type of training and training period
Consultation for writing scientific paper in Serbian and English		150–400	price depends on the type, complexity and length of paper
Consultation		35	duration 45 min

* plant phenolics that are quantified are: *p*-hydroxybenzoic acid, cinnamic acid, protocatechuic acid, 2,5-dihydroxybenzoic acid, umbelliferone, *p*-coumaric acid, *o*-coumaric acid, vanillic acid, gallic acid, esculetin, caffeic acid, quinic acid, scopoletin, ferulic acid, syringic acid, 3,4-dimethoxycinnamic acid, sinapic acid, daidzein,, apigenin, genistein, baicalein, naringenin, luteolin, kaempferol, catechin, epicatechin, chrysoeriol, quercetin, isorhamnetin, myricetin, 5-*O*-caffeoylquinic acid, matairesinol, secoisolariciresinol, apigenin 7-*O*–glucoside, vitexin, baicalin, kaempferol 3-*O*-glucoside, luteolin 7-*O*–glucoside, quercitrin, epigallocatechin gallate, hyperoside, quercetin 3-*O*-glucoside, amentoflavone, apiin, rutin,

hydroxyphenylacetic acid, isoscopoletin, resveratrol, alizarin, dantron, chrysin, pinocembrin, liquiritigenin, isoliquiritigenin, abscisic acid, formononetin, aloe-emodin, emodin, pinostrobin, galangin, rhein, diosmetin, hesperetin, morin, ellagic acid, rhamnetin, ursolic acid, glycyrrhizic acid, naringin, glycyrrhizin, rosmarinic acid.

**** For all analyses that are not listed, there is possibility for their performance according to client needs**