Phytochemical Profiling and Analysis

Celabor's phytochemical profiling and analysis services includes plant extracts analysis, chromatographic fingerprints and purity determination.

Phytochemical profiling and Active Ingredient (AI) analysis are vital for regulatory compliance and to understand the quality and composition of substances that are used in products, industrial processes and manufacturing. Advanced analytical instrumentation or a combination of techniques is necessary to solve problems or determine composition.

Celabor's "Analytical Laboratory" is equipped with a wide range of techniques and instrumentation to meet any phytochemical analysis challenge or requirement. We provide advanced research and testing expertise (Celabor is accredited ISO 17025 – BELAC-136-TEST). We perform testing protocols and are experts in developing tailored analytical methods and performing method validation for specific testing and analysis applications.

We have over 20 years of natural product extraction and analysis experience, and Celabor can serve any industrial sector from food and nutraceutical to pharmaceutical and cosmetic products.

Chemical composition analysis

Our chemical composition analysis utilizes a combination of techniques that can cover a wide range of applications, and which determine chemical quality, identity, composition and impurities. A list of substances analyzed in routine by Celabor is summarized above. This list evolves constantly according to client demand. Our UPLC instruments are coupled to mass spectrometry (MS) and diode array (DAD) detections.

Substances	Method	Substances	Method	Substances	Method
Acacetin	UPLC	Eugenol	GC-MS	Osthole	UPLC
Acetyl Alpha Boswelic Acid	UPLC	Fenchone	GC-MS	Phloretine	UPLC
Acetyl Beta Boswelic Acid	UPLC	Ferulic acid	UPLC	Phloridzine	UPLC
Acetyl Keto Boswelic Acid	UPLC	Fisetine	UPLC	Physcione	UPLC
Aloe-Emodine	UPLC	Flavone	UPLC	Piceatannol	UPLC
Alpha Boswelic Acid	UPLC	Fraxetine	UPLC	Pinocembrine	UPLC
Anethole	GC-MS	Furfural	UPLC	Polydatin	UPLC
Apigenin	UPLC	Fustin	UPLC	Prenylnaringenine (6)	UPLC
Artemisinine	UPLC	Gaiacol	GC-MS	Prenylnaringenine (8)	UPLC
Avicularin	UPLC	Galangin	UPLC	Procyanidine B1	UPLC
Beta Boswelic Acid	UPLC	Gallic acid	UPLC	Procyanidine B2	UPLC
Beta-Carotène	UPLC	Gallocatechine	UPLC	Procyanidine B3	UPLC
Betulinic acid	HPLC	Gallocatechine Gallate	UPLC	Protocatechuic Acid	UPLC
Bilobalide	UPLC	Geraniol	GC-MS	Punicalagines A & B	UPLC
Bisabolol	GC-MS	Ginkgolide A	UPLC	Quercetine	UPLC
Bisdemethoxycurcumin	UPLC	Ginkgolide B	UPLC	Quercitrine	UPLC
Butein	UPLC	Ginkgolide C	UPLC	Resveratrol	UPLC





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Cafestol	UPLC	Hesperetine	UPLC	Rhamnetine	UPLC
Caffeic acid	UPLC	Hesperidine	UPLC	Rhapontine	UPLC
Carnosic acid	UPLC	Hexahydrocurcumin	UPLC	Rheine	UPLC
Carnosol	UPLC	Hydroxybenzoic acid (4)	UPLC	Robinetine	UPLC
Carvacrol	UPLC	Hydroxytyrosol	UPLC	Rosmarinic acid	UPLC
Carvone	GC-MS	Hyperoside	UPLC	Rutin	UPLC
Catechin	UPLC	Isoliquiritigenin	UPLC	Scopoletine	UPLC
Catechin Gallate	UPLC	Isoquercitrine	UPLC	Sennoside A	UPLC
Chaconine	UPLC	Isorhamnetin	UPLC	Sennoside A1	UPLC
Chlorogenic acid	UPLC	Isoxanthohumol	UPLC	Sennoside B	UPLC
Chrysine	UPLC	Kaempferol	UPLC	Sennoside C	UPLC
Chrysophanol	UPLC	Kaempferol-3-glucoside	UPLC	Sinapic acid	UPLC
Cichoric acid	UPLC	Kaempferol-3-rutinoside	UPLC	Solanine	UPLC
Cinnamic acid	UPLC	Kahweol	UPLC	Syringaldehyde	UPLC
Citral	GC-MS	Keto Boswelic Acid	UPLC	Syringic acid	UPLC
Citronellol	GC-MS	ligustilide	GC-MS	Syringine (Eleutheroside B)	UPLC
Coniferyl aldehyde	UPLC	Limonene	GC-MS	Syringol	UPLC
Coumaric acid	UPLC	Linalol	GC-MS	Tamarixetine	UPLC
Cryptochlorogenic acid	UPLC	Linarin	UPLC	Taxifolin	UPLC
Deacetylbaccatine III (10-)	UPLC	Liquiritigenin	UPLC	Tetrahydrocurcumin	UPLC
Demethoxycurcumin	UPLC	Lupulone	UPLC	Theanine	UPLC
Dihydrokaempferol	UPLC	Luteoline	UPLC	Theophylline	UPLC
Dihydromyricetin	UPLC	Menthol	GC-MS	Thymol	GC-MS
Dihydrorobinetin	UPLC	Menthone	GC-MS	Tiliroside	UPLC
Ellagic acid	UPLC	Methylfurfural	UPLC	Umbelliferone	UPLC
Emodine	UPLC	Monacoline K	HPLC	Vaniline	GC-MS
Epicatechin	UPLC	Myricetine	UPLC	Vanillic acid	UPLC
Epicatechin Gallate	UPLC	Naringenine	UPLC	Vitamine B12	UV
Epigallocatechin	UPLC	Naringine	UPLC	Withaferin A	UPLC
Epigallocatechin gallate	UPLC	Neochlorogenic acid	UPLC	Withanone	UPLC
Esculetine	UPLC	Nerol	GC-MS	Withanoside V	UPLC
Esculine	UPLC	Octalactone trans et cis	GC-MS	Xanthohumol	UPLC
Estragol	GC-MS	Oleuropeine	UPLC		

Contact

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