

Plant Metabolite Profiling

Studies of plant metabolites can provide valuable information regarding the plant biosynthetic and catabolic pathways, and are therefore very important for understanding the physiological and biochemical regulations of plant cells. Further, as plant metabolites are direct indicators of plant performance, they can potentially guide the selection and development of biochemical markers, providing valuable tools for the improvement of plant agronomic traits.

Lifasible, as a leading plant biotechnology company, has years of experience with the plant metabolite profiling techniques. We not only provide optimized protocols for sample preparation, but also have advanced analytical technologies for metabolite profiling.

Our Services

- ✔ Metabolites identification and quantification
- ✔ Widely-targeted metabolomics for plants
- ✔ Targeted metabolomics of carotenoids/anthocyanidins

Our Advantages

- ✔ Comprehensive testing platform
- ✔ Comprehensive database
- ✔ Leading mass spectrometry platform

Plant Widely Targeted Metabolome Database

Substance category	Number	Representative substance
Flavone	3700+	Rutin, Phloretin, Pomiferin, Hesperitin, Liquiritigenin, Pelargonidin 3-O-glucoside, Ginkgo biflavones, Formononetin, Theaflavins
Phenolic acid	2100+	Chlorogenic acid, Momordicoside A, Oleuropein, Salvianolic acid, Veratric acid, Salidroside, Pericin B, Magloside A, Vanillic acid
Alkaloids	7000+	α - Solanine, Peimine, Nuciferine, Stachydrine, Matrine, Camptothecin, ArecolinE, DIMBOA, Oat alkaloid A, Lycorenin
Terpenoids	8000+	Artemisinin, Genipin, Paclitaxel, Wilforlide A, Protopanaxadiol, Saikosaponin A, Cucurbitacin B, Crocin-I, Cyclocarioside I, Ecliptasaponin A
Steroids	1300+	Asparagus saponin C, Polyphyllin D, Timosaponin A-III, Gracillin, Sarsasapogenin, Tigogenin, Digitonin, Oleandrin
Vitamins	50+	Ascorbic acid, Riboflavin, All-trans-Retinol, Vitamin U, Ginkgotoxin, Nicotinic acid, Nicotinamide, Vitamin D3, Tocotrienol
Amino acids	540+	Tryptophan, Theanine, Beauvericin, Dencichine, Heterophyllin, Saccharopine, (S)-3-(Allylsulphonyl)-L-alanine, DOPA, S-Adenosyl-L-methionine, Glutamic acid cysteine

Please feel free to contact us for more detailed information about our services.