

NARO way | DEVELOPED WITH NARO

Catechin Analysis Kit

Easily Quantify the Catechins in Tea Leaves



Supports Fast and Convenient Measurements of the Functional Components in Foods

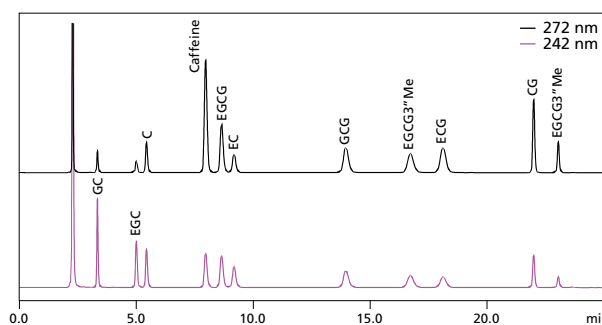
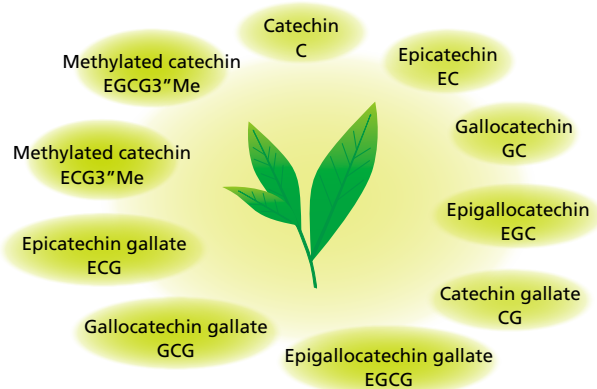
The National Agriculture and Food Research Organization (NARO) and Shimadzu are studying fast, convenient, and accurate methods for analyzing the functional components in foods for purposes of data analysis and social implementation. This kit provides a validated method, developed in cooperation with NARO, for measuring the catechins in tea leaves, from sample pretreatment to HPLC measurement. Reliable catechin measurements can be performed easily and, in addition, the quantitative results can be checked immediately in a report. This kit provides strong support for the acquisition of data required for applications and the development of functional foods, and can even be used for quality control of tea products.



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Capable of Simultaneously Analyzing 10 Catechins Including Methylated Catechin

Catechins are one type of polyphenol, and are classified as flavanols in the flavonoid family of compounds. With this analysis kit, it is possible to simultaneously analyze caffeine and 10 kinds of catechins in 30 minutes. In addition to methylated catechin, which is said to have anti-allergy properties, other catechins include epigallocatechin gallate, epigallocatechin, epicatechin gallate, and epicatechin, the main catechins in green tea.



Chromatogram for a 10-Catechin Standard Sample

Validated & Ready to Use: Performs Pretreatment, Measurement, and the Creation of Reports Automatically

In addition to the analysis column, this analysis kit includes a CD-ROM containing an instruction manual detailing the entire procedure (*) from sample pretreatment to HPLC measurement, LC method files, and report templates. The analysis can start quickly, whether or not the user has experience with catechin analysis.

(*) Developed and validated by NARO and Shimadzu.

[Components of the Catechin Analysis Kit]

- Column
- CD-ROM
- Method files
- UV spectral libraries
- Report format files
- Instruction manual

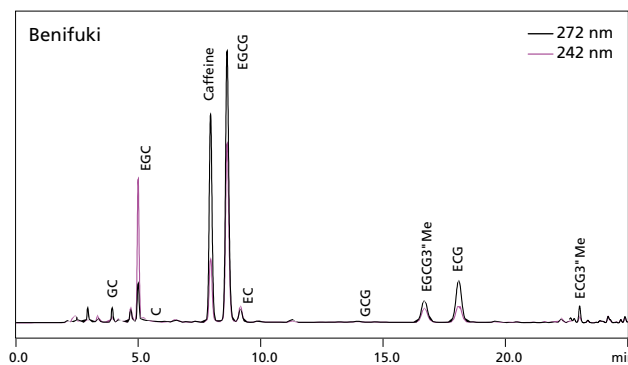
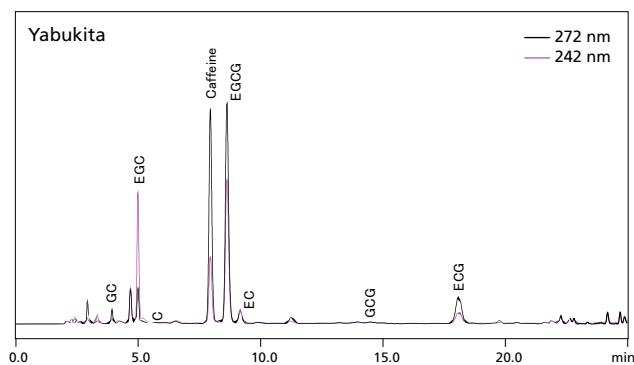
The pretreatment method, column, and analysis conditions are all included in the kit.

Ready to use

PK#	Name	Ret. Time	Area	Height	Concentration (100%)	Channel
1	EGCG	4.594	411803	81913	4.60	242nm
2	EGCG	4.594	411803	81913	4.60	272nm
3	Caffeine	7.939	1192093	189484	3.10	242nm
4	EGCG	8.993	1617618	143983	3.90	242nm
5	EGCG	8.993	1617618	143983	3.90	272nm
6	EGCG3*Me	14.106	808883	188173	1.18	242nm
7	EGCG	14.106	808883	188173	1.18	272nm
8	EGCG3*Me	21.881	238081	188241	0.18	242nm
9	EGCG3*Me	21.881	238081	188241	0.18	272nm

The amount per 100 g of tea leaves (g/100 g) is automatically calculated and output in a report, eliminating human error as well as the trouble of performing the calculations.

Analysis Example



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