

NARO way | DEVELOPED WITH NARO

Catechin Analysis Kit

Easily Quantify Catechins in Tea Leaves and Green Tea Beverages



Supports Fast and Convenient Quantitative Analysis of Catechins in Tea Leaves and Green Tea Beverages

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 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.



農研機構



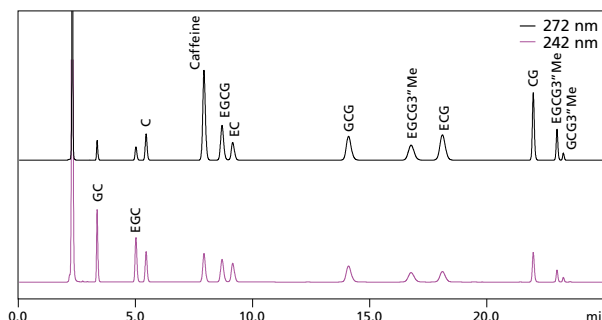
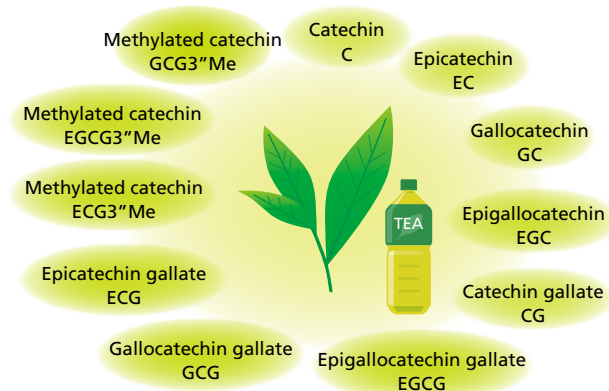
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Capable of Simultaneously Analyzing 11 Catechins Including Methylated Catechin

Catechins are a type of polyphenol and classified as flavanols in the flavonoid family of compounds. With this analysis kit, it is possible to simultaneously analyze caffeine and 11 kinds of catechins in 35 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 an 11-Catechin Standard Sample
(Obtained with Nexera™ XR)

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.

Compatible systems: LC-2050C 3D, Nexera XR (high-pressure gradient system), Nexera lite (high-pressure gradient system)

(*) The CD-ROM can also be purchased on its own.

(**) Developed collaboratively by NARO and Shimadzu



Pretreatment



Start analysis



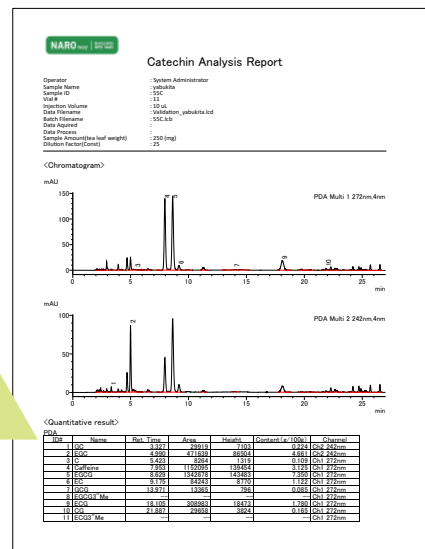
Report output

[Components of the Catechin Analysis Kit]

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

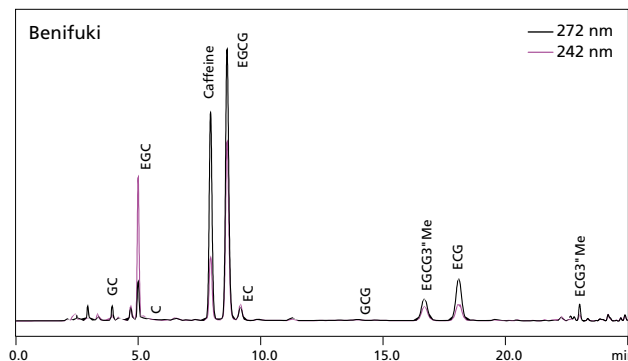
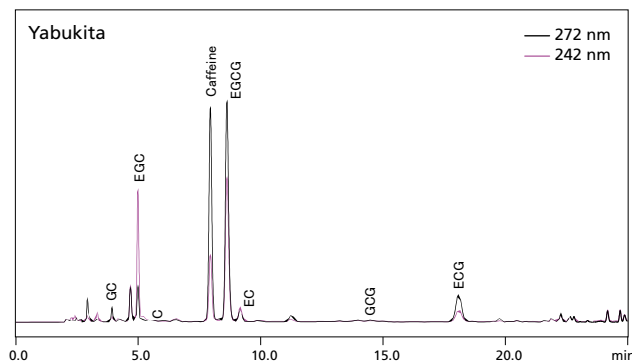
The pretreatment method, column, and analysis conditions are all included in the kit.

Ready to use



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 (Obtained with Nexera XR)



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