

Epigallocatechin 3-O-gallate (EGCG) belongs to a class of compounds called flavonoids and is further subclassified as a flavanol, due to the level of oxidation in its chemical structure. This compound has been recognized as a cancer-preventive compound due to its ability to inhibit urokinase, an enzyme which has been associated with excelerated tumor cell growth. Due to the interest in holistic-type, preventative medicine approaches in today's society, a method was developed for a series of catechins and an actual extract of green tea to serve as a general interest application.



Highlights

- Good peak shape and resolution are maintained for a group of catechins on Agilent ZORBAX SB-C8 at low pH.
- Sterically protected bonded phases, like SB-C8, offer extended column lifetime even with TFA-containing (low-pH) mobile phases.
- Good retention of the catechins allows adequate separation from other UV-absorbing compounds in the actual tea extract.



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Printed in the USA April 25, 2002 5988-6357EN



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