



	Sign in
Food Science and Technology Research FSTR	Japanese Society for Food Science and Technology
Available Issues Japanese	>> <u>Publisher Site</u>
Author: ADVANCED Volume Page Keyword: Search	Go
Add to Favorite / Citation Favorite Articles Alerts	Register My J-STAGE Alerts HELP
<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > Abstract	
	ONLINE ISSN : 1881-3984
	PRINT ISSN: 1344-6606
Food Science and Technology Research	
Vol. 12 (2006), No. 1 50-54	

Antihypercholesterolemic Activity of Catechin-free Saponin-rich Extract from Green Tea Leaves

Yoko MATSUI¹⁾, Hitomi KUMAGAI²⁾ and Hideki MASUDA¹⁾

1) Material R&D Laboratory, Ogawa & Co., Ltd.

2) Department of Agricultural and Biological Chemistry, Nihon University

(Received: September 26, 2005) (Accepted: February 8, 2006)

Catechins were removed from tea leaves to examine if there were any other components having the antihypercholesterolemic activity. The prepared catechin-free tea extract, TE, contained saponins and caffeine. The intake of TE suppressed the increase in the serum cholesterol level of rats induced hypercholesterolemia, and enhanced the excretion of cholesterol into feces. Since caffeine has been reported to enhance the serum cholesterol level, the effect of TE on the reduction of the cholesterol level appeared to be due to saponins. *In vitro* experiment showed that TE inhibited the incorporation of cholesterol into micelles. From all these results, TE exhibited the antihypercholesterolemic activity probably by preventing cholesterol from being incorporated into the micelles and thus inhibiting its absorption from the intestine.

Keywords: green tea, catechin, saponin, antihypercholesterolemic activity, cholesterol, rat, micelle

[PDF (636K)] [References]

Download Meta of Article[Help]

[PDF (636K)] [References]

RIS

BibTeX

To cite this article:

Antihypercholesterolemic Activity of Catechin-free Saponin-rich Extract from Green Tea Leaves Yoko MATSUI, Hitomi KUMAGAI and Hideki MASUDA, FSTR. Vol. 12, 50-54. (2006).

doi:10.3136/fstr.12.50

JOI JST.JSTAGE/fstr/12.50

Copyright (c) 2007 by Japanese Society for Food Science and Technology







Japan Science and Technology Information Aggregator, Electronic
JSTAGE

