



[PDF (581K)] [References]

					Sign in	J	
Food Science and Technology Research FSTR				Japanese Society for Food Science and Technology			
Available Issues Ja	panese			>>	Publisher Site		
Author:	ADVANCED	Volume	Page				
Keyword:	Search				Go		
	Add to Favorite/Citation Articles Alerts	Add to Favorite Publication	ıs &! !	Register Alerts	?My J-STAGE HELP	Ξ	
TOP > Available Iss	sues > Table of Contents > Ab	stract					
				ONLINE ISSN : 1881-3984			
				PRINT	ISSN: 1344-660	5	
Food Science and T	echnology Research						
Vol. 12 (2006), No.	1 27-30						

Effect of Citrus Fruit (*Sudachi*) Juice on Absorption of Calcium from Whole Small Fish in Healthy Young Men

Yoshitaka NII¹⁾, <u>Takamasa OSAWA²⁾</u>, <u>Daisuke KUNII²⁾</u>, <u>Kazuhiro FUKUTA¹⁾</u>, Kentaro SAKAI³⁾, Maki KONDO⁴⁾ and Shigeru YAMAMOTO²⁾

- 1) Food Technology Division, Tokushima Prefectural Industrial Technology Center
- 2) Department of International Public Health Nutrition, Institute of Health Biosciences, The University of Tokushima Graduate School
- 3) Department of Nutrition and Health Promotion, Faculty of Human Life Science, Hiroshima Jogakuin University
- 4) Faculty of Human Life Science, Shikoku University

(Received: July 1, 2005) (Accepted: January 25, 2006)

Shirasuboshi (boiled and semi-dried whitebait) is a processed seafood that is abundant in calcium. It is eaten whole and commonly consumed in Japan. In this study, we examined the effect of Sudachi (Citrus sudachi Hort. ex. Shirai) juice on calcium, magnesium and phosphorus bioavailability in healthy young men. Dried shirasuboshi powder treated with distilled water (C) or sudachi juice (S20) was prepared for use in two experimental diets, the control diet and the sudachi diet. Either S20 or C was added to a basal diet with a low calcium content (180mg/d). The basal diet and the two experimental diets were each consumed for 6d by six healthy young men according to a randomized and crossover design. The apparent absorption and retention of calcium, magnesium and phosphorus from shirasuboshi were determined and were found to be significantly higher in the sudachi diet than in the control diet. The apparent absorption and retention of calcium from the basal diet were found to be in negative balance. Our results indicate that shirasuboshi added to sudachi juice was associated with increased mineral bioavailability in healthy young men.

Keywords: fish, citrus fruit, calcium absorption, bone resorption, healthy young men

[PDF (581K)] [References]

Download Meta of Article[Help]

RIS

BibTeX

To cite this article:

Effect of Citrus Fruit (Sudachi) Juice on Absorption of Calcium from Whole Small Fish in Healthy Young Men Yoshitaka NII, Takamasa OSAWA, Daisuke KUNII, Kazuhiro FUKUTA, Kentaro SAKAI, Maki KONDO and Shigeru YAMAMOTO, FSTR. Vol. 12, 27-30. (2006).

doi:10.3136/fstr.12.27

JOI JST.JSTAGE/fstr/12.27

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







Japan Science and Technology Information Aggregator, Electronic

