ONLINE ISSN : 1881-3984
PRINT ISSN : 1344-6606

Food Science and Technology Research
Vol. 7 (2001) , No. 1 pp.64-66

[PDF (58K)] [References]

Suppressive Effects of the Extract from Sake Cake on Chemical Mutagen-Induced SOS Response in *Salmonella typhimurium*

Yuka ISOBE[1)], Tomoyo KATAMOTO[1)], Yuki KAWAGUCHI[1)], Sachiko MATSUSHITA[1)], Kumio YOKOIGAWA[1)], Toko AKIRA[2)] and Hiroyasu KAWAI[1)]

1) Department of Food Science and Nutrition, Nara Women's University
2) Tamanohikari sake brewing Co. Ltd.

(Received: June 26, 2000)
(Accepted: November 9, 2000)

The suppressive effects of the extract from sake cake on the SOS response of *Salmonella typhimurium* TA 1535/pSK1002 induced by AF-2, 4NQO, Trp-P-1, Trp-P-2, IQ and MeIQx were investigated for the purpose of finding antimutagenic substances in sake cake. The water-extract and methanol-extract from sake cake strongly suppressed SOS response induced by IQ in the presence of S9 mix in a dose dependent manner. The molecular weight of a suppressive compound in the water-extract was less than 3000 in an analysis of gel filtration. Several suppressive compounds also seemed to exist in the methanol-extract from sake cake.

Keywords: sake cake, SOS response, suppression, antimutagenicity

[PDF (58K)] [References]

Download Meta of Article[Help]
RIS
BibTeX

*KAWAGUCHI, Sachiko MATSUSHITA, Kumio YOKOIGAWA, Toko AKIRA and Hiroyasu KAWAI, FSTR. Vol. **7**, 64-66. (2001) .*

doi:10.3136/fstr.7.64
JOI JST.JSTAGE/fstr/7.64