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

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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

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