

# Effect of tea catechins in halitosis and their application in chewing gum.

Ui, Miki; Yasuda, Hideyuki; Shibata, Masaki; Maruyama, Takashi; Horita, Hiroshi; Hara, Toshio; Yasuda, Tamaki.

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## Abstract

The ext. from green tea with 80% EtOH was submitted to gel filtration to sep. catechins, which consisted of (-)-epicatechin (EC), (-)-epigallocatechin (EGC), (-)-epicatechin gallate (ECg), and (-)-epigallocatechin gallate (EGCg). Deodorant effect of the tea catechins on CH<sub>3</sub>SH was stronger than that of Na copper chlorophyllin. Deodorant activity of the components in the tea catechins was in the following order: EC < ECg < EGC < ECGg. The tea catechins (0.1-1.0 mg) depressed formation of CH<sub>3</sub>SH from incubated saliva (1 mL), to which 20 mM L-methionine was previously added. Addn. of the tea catechins to chewing gum at 0.5% significantly decreased CH<sub>3</sub>SH formation and was useful to depress the bad breath.