

〈一般論文〉

黒糖から抽出した化合物の β -Hexosaminidase
放出抑制活性ならびに抗酸化活性について

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**β -Hexosaminidase Release Inhibition Activity and Anti-oxidative
Activity of Compounds Extracted from Kokuto**

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Abstract

Oxidative stress is known to be connected with allergic dermatitis such as atopy, which was those recently increased. Kokuto condensed sugar cane sap, is reported to contain anti-oxidants. We reported that oxidative stress induces β -hexosaminidase (connected with allergic reaction) release from cultured cells. In this study, we screened kokuto extracts by the detection of β -hexosaminidase released from RBL-2H3 cells. We found out that 5 kinds of phenyl glucoside inhibit β -hexosaminidase release and 4-hydroxy-3-methoxy-phenyl-*O*- β -D-glucoside shows the highest inhibition activity. This result suggested that these compounds have *in vitro* anti-allergic activity.

Key words: kokuto extracts, β -hexosaminidase, anti-allergic activity, oxidative stress.