黑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.