

シャクヤク・キバナオウギ・モッコウ生根の低温処理による
糖及び希エタノールエキス含量の経時変化

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**Changes of Sugars and Dilute Ethanol-soluble Extract Contents
upon Cold Treatment of Fresh Roots of *Paeonia lactiflora*,
Astragalus membranaceus and *Saussurea lappa***

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Summary

The time course of changes in sugars and dilute ethanol-soluble extract contents in fresh roots of *Paeonia lactiflora* (Paeoniaceae), *Astragalus membranaceus* (Leguminosae) and *Saussurea lappa* (Compositae) harvested in September, October and November were investigated during storage at 2.5 or 4°C for 10~40 days.

In the case of *Paeonia lactiflora* and *Astragalus membranaceus* which contained starch in the roots, the contents of sucrose increased with longer duration of low-temperature treatment and that of dilute ethanol-soluble extract correspondingly increased. The content of dilute ethanol-soluble extract in the root of *Saussurea lappa*, which contained inulin, also increased with longer duration of low-temperature treatment. However, the content of fructose did not increase in proportion to increase of the content of dilute ethanol-soluble extract.

Key words

Paeonia lactiflora, *Astragalus membranaceus*, *Saussurea lappa*, Cold treatment, Dilute ethanol-soluble extract, Sucrose, Fructose, Paeoniflorin