B2

HPLC에 의한 민오가피 열매와 오가와인 중의 eleutheroside B와 eleutheroside E의 정량

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Determination of Eleutherosides B and E in the Fruits of Acanthopanax sessiliflorus and Their Wine Product by HPLC

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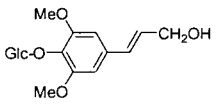
Objectives

To determine the contents of eleutherosides B and E in the fruits of *A. sessiliflorus* and their wine product by HPLC

Materials and Methods

○ Materials: Fruits of *A. sessiliflorus* and their wine product (Ogawine)

○ Methods: Standard compounds [eleutherosides B (1) and E (2)] and HPLC analytical conditions [HPLC: Gilson 305 HPLC system, UV detector: Gilson UV 119, column: Mucleosil 100-5C18, elution: MeCN:H_2O gradient, flow rate: 1 ml/min, wave length: 210 nm]



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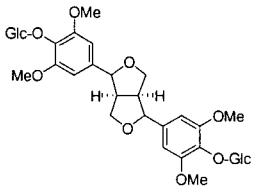

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Results and Discussion

○ This is first report on the determination of eleutherosides B and E in the fruits of *A. sessiliflorus*.

○ Content of eleutherosides B and E in the fruits of *A. sessiliflorus* (1.1 ± 0.1 μg/mg and 8.4 ± 0.2 μg/mg, respectively, Fig. 1)

○ Content of eleutherosides B and E in Ogawine (0.4 ± 0.1 μg/mg and 1.3 ± 0.1 μg/mg, respectively, Fig. 2)

○ No detection of eleutherosides B and E in Ogawine residues (Fig. 3)

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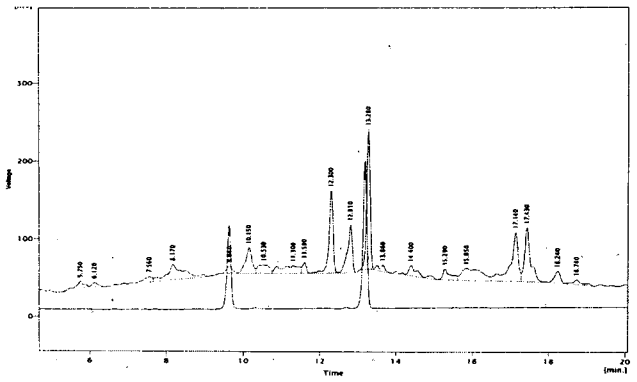

Fig. 1. HPLC chromatogram of *A. sessiliflorus* fruits

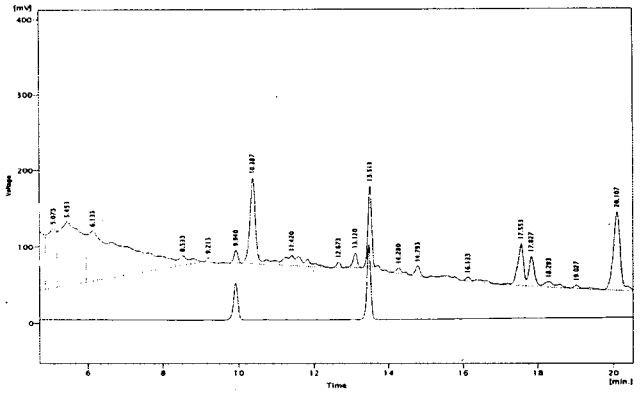

Fig. 2. HPLC chromatogram of Ogawine

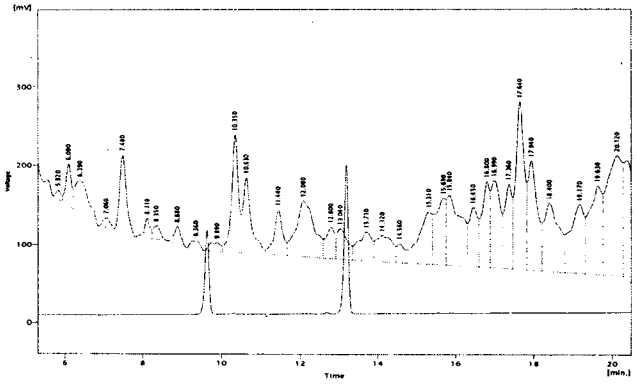

Fig. 3. HPLC chromatogram of Ogawine residues