

species of Gentianaceae, especially *Gentiana scabra*, but there has no pharmacognostical confirmation on it. To clarify the botanical origin of "Yong Dam", we studied on the anatomical characteristics of *Gentiana* species growing wild in Korea i.e. *Gentiana scabra* var. *buergeri*, *G. uchiyamai*, *G. triflora*, *G. axillariflora* var. *coreana* and of "Yong Dam" from Korea on Korean market. Through our studies, the botanical origin of "Yong Dam" from Korea was proved to be *Gentiana scabra* var. *buergeri* and *Gentiana axillariflora* var. *coreana*.

[PD3-1] [10/19/2000 (Thr) 15:00 - 16:00 / [Hall B]]

A Study on the Extraction Quantity of Amygdalin in Armeniaceae Semen

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Armeniaceae semen is the natural medicine which has been generally used for asthma, dyspnea, edema, etc. Armeniaceae semen has been usually used as powders after it is peeled off in Korean traditional medicine.

Amygdalin, major ingredient of armeniaceae semen, is decomposed to benzaldehyde, HCN, glucose by emulsin, the enzyme, in water. Therefore, amygdalin are almost decomposed when the armeniaceae semen are made into the form of the decoction of armeniaceae semen powder.

To understand the decomposed extent of amygdalin, we have studied making differences of the particle sizes and extractants. The results indicated that amygdalin were not almost decomposed in organic solvent(extractant) such as methanol in which emulsin didn't work on. And the larger particle size was, the lower decomposition rate we could get in water.

The separation and quantitation of amygdalin was carried by high-performance liquid chromatography.

[PD3-2] [10/19/2000 (Thr) 15:00 - 16:00 / [Hall B]]

A Study on the Extraction Quantity of Amygdalin in Persicae Semen

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Persicae semen is the natural medicine which has been generally used for relieving cough, removing the phlegm and blood stasis in Korean traditional medicine. Persicae semen has been usually used as powders without peeled off.

Amygdalin, major ingredient of persicae semen, is decomposed to benzaldehyde, HCN, glucose by emulsin, the enzyme, in water. Therefore, amygdalin are almost decomposed when persicae semen are made into the form of the decoction of persicae semen powder.

To understand the decomposed extent of amygdalin, we have studied making differences of the particle sizes and extractants. The results indicated that amygdalin were not almost decomposed in organic solvent(extractant) such as methanol in which emulsin didn't work on. And the larger particle size was, the lower decomposing rate we could get in water. In powder, the extraction rate of amygdalin was 5~6% in contrast to 65% in whole.

[PD3-3] [10/19/2000 (Thr) 15:00 - 16:00 / [Hall B]]

Studies on the Essential Oils of *Dendranthema zawadskii* Tzv.