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Genetic Characteristics of Dill(*Anethum graveolens* L.)

Seon Wha Bae¹, Song Mun Kim², Ki Yeon Lee^{1*}, Kyung Dae Kim¹, Jae Hee Lee¹, Eun Ha Jang¹, Jin Gwan Ham¹

¹Agripproduct Processing Research Institute, Gangwon-do Agricultural Research and Extension Services, Chuncheon 24203, Korea

²School of Natural Resources and Environmental Science, Kangwon National University, Chuncheon 24341, Korea

[Abstract]

Dill(*Anethum graveolens* L.) is a buttercup family, and flowers, leaves, stems, and seeds are all mainly used as spices. This study was carried out to discover and propagate genetic resources for the development of plant-derived medicinal fragrance materials, and to establish a database. In order to investigate the genetic characteristics of dill and to extract natural essential oils, 50 resources were parceled out the genetic resource center, sown, germinated, and then formally cultivated in the test research field. After sowing and propagation of 50 dill resources, the characteristics of each individual such as plant height, the diameter of polychasium during flowering, and the number of small inflorescences were investigated. The flowering period of dill was around May 31 to June 17, and about 10% of the proliferating population flowered around May 31. The plant length of dill was 32~141cm, and the length of petiole was 1~16cm, showing an average of 5cm. The color of the stem and leaf color was referred to the RHS Color chart, and the colors were classified as 44S, 19V, and 75DI. Uses as many resources as possible with 35 resources equivalent to 19V. Inflorescences are lateral and opposite, polychasium inflorescences are somewhat flat at the upper part and have a diameter of 4.5~20cm, and divergent inflorescences are irradiated with 5~86 multiple flowers. The number of pedicels is 16~74, and the length of the pedicel is 1-18cm spread sideways or the length is different from each other.

[Acknowledgement]

본 연구는 농촌진흥청 공동연구사업(PJ014506)의 지원에 의해 이루어진 결과로 이에 감사드립니다.

*Corresponding author: E-mail· lky6520@korea.kr Tel. +82-33-248-6530