

NUTRIENT MEDIUM FOR *IN VITRO* PROPAGATION OF CHINESE REDBUD (*CERCIS CHINENSIS* BUNGE)

Areas of Application

This nutrient medium is used to increase the explant regeneration capacity and propagation rate of *C. chinensis*. It provides opportunities to preserve the plant gene pool and to obtain morphologically and genetically uniform planting material of this variety on the commercial basis for plant introduction and ornamental horticulture

Specification

The nutrient medium has been created using the Murashige-Skoog basic culture medium in author's modification. It has a lesser content of ammonium nitrate (NH_4NO_3) and potassium nitrate (KNO_3); the amino acid composition has a reduced content of amino acetic acid (glycine). Its vitamin composition has been supplemented with vitamins C and B₅, and the growth regulators composition has been modified as 6-BAP and 2,4-D added



Chinese redbud (*Cercis chinensis* Bunge)
in vitro morphogenesis

Advantages

The proposed culture medium speeds up the start of morphogenesis by 6-days and raises the propagation factor from 3.0 to 4.99, while the average number of explants increases from 2.5 to 3.2 and the average length grows from 23.8 to 31.2 mm, which significantly increases the yield of planting and source material

IPR Protection

IPR1, IPR3

Stage of Development. Suggestions for Commercialization

IRL6, TRL6

The nutrient medium for Chinese redbud (*Cercis chinensis* Bunge) *in vitro* morphogenesis is produced upon request. Staff training is provided upon request

Contact Information

Ludmila I. Vernyuk, National Dendrological Park *Sofiyivka* of the NAS of Ukraine;
+38 047 443 65 15, e-mail: ndp.sofiyivka@gmail.com