

ARTÍCULO CIENTÍFICO

ESTABLECIMIENTO DE SUSPENSIONES CELULARES A PARTIR DE SEGMENTOS FOLIARES DE *Valeriana pyramidalis* Kunth

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ESTABLISHMENT OF CELL SUSPENSIONS FROM LEAF SEGMENTS OF *Valeriana pyramidalis* Kunth

Abstract

Valeriana pyramidalis Kunth native species declared as patrimonial plant for the Metropolitan District of Quito is popularly used for its sedative activity in the treatment of nerve, heart, migraine and insomnia problems. Like other valerian it has been described taxonomically, however, there is no scientific publication about its secondary metabolites. In this research it was proposed the establishment of cells suspensions cultures of *Valeriana pyramidalis* Kunth, as a basis of future study for quantification of their secondary metabolites. Leaflets were disinfected using sodium hypochlorite 0, 5 % (v / v). Callus formation was significant in Murashige & Skoog media supplemented with different concentration of 2, 4-D (2.5; 2.0 and 1.5 mg / L). The cell suspension culture was established by transferring 1 g of calli to 20 ml liquid media an agitating condition (110 rpm). The growth kinetic curve was successfully obtained for each one of the suspension, after comparing these curves, it was determined no significant difference exists between the treatments.

Keywords: Calli, cells suspensions cultures, 2, 4-D, *Valeriana pyramidalis*.

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