RESEARCH ON PROPAGATION OF *Dipsacus japonicus* BY TISSUE CULTURE

Khuat Thi Hai Ninh[1], Phan Thi Trang[1], Nguyen Thi Tho[1], Bui Van Thang[1], Vu Van Hieu[2]

[1]*Vietnam National University of Forestry*

[2]*Research Center for plant breeding Dao Duc - Ha Giang*

SUMMARY

Research on the propagation of *Dipsacus japonicus* by tissue culture, belonging to Vietnam National University of Forestry, showed that in $HgCl_2$ 0.1% for 1 minute and have 5% for 20 minutes the portion of clean sprouted seeds is 70 - 83.3%, $HgCl_2$ 0.1% for 2 minutes the portion of clean sprouted expands is 22.2%. In the shoot regeneration most appropriate medium is Murashige and Skoog (MS) medium supplemented with 6-Benzylaminopurine (BAP) 0.4 mg/l; Thidiazuron (TDZ) 0.4 mg/l (the portion of shoot regeneration expands is 100% with 5.2 shots per explants, length of the shoot is 3.4 centimeter). Then improve shoot quality is MS medium supplemented with BAP 0.4 mg/l; Kinetin 0.2 mg/l; α-Naphthaleneacetic acid (NAA) 0.1 mg/l (with shoot height of 7.5 cm), The best medium for shoot rooting is MS with supplement 0.4 mg/l NAA (roots have appeared after 10 days, rate of rooted shoots is 100%, and roots having good quality). The plantlets are planted in mixes 50% of the soil with 25% sand and 25% of the husk at the nursery (with a survival rate of 60% after four weeks).

Keywords: *Dipsacus japonicus*, *in vitro*, multi-shoot, propagation.

Ngày nhận bài : 14/8/2018

Ngày phản biện : 15/1/2019

Ngày quyết định đăng : 20/3/2019