

## عنوان مقاله:

Mucilage Production In Tissue Culture of *Plantago lanceolata*

## محل انتشار:

مجله علوم و فناوری کشاورزی، دوره 3، شماره 2 (سال: 1380)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

Leaf and root explants from 10 to 20 day-old seedlings of *Plantago lanceolata*, were cultured on MS, MSH, NT and B5 basal media with various concentrations of different plant growth regulators. The best callus induction was obtained with 0.4 mg/l-1 2,4-D in MSH I with 400 callus index. Callus growth was significantly stimulated ( $P=0.05$ ) with 0.8 mg/l-1 2,4-D and 0.1 mg/l-1 Kin in MSH II, with 799 mg fresh weight and 79 mg dry weight. A higher production of mucilage was obtained in MSH II. The mucilage content of different media varied from 10.40 to 14.73% dry weight. Perusal of the data reveals significant differences with regard to the total mucilage content. Callus has nearly 3 times and 1.5 times more mucilage than seeds and leaf and root parts respectively.

## کلمات کلیدی:

Tissue culture, Mucilage, *Plantago lanceolata*

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1816162>

