

## 10 ABSTRACT

The object of this study was the influence of abiotic elicitor on the production of rutin in suspension culture of *Fagopyrum esculentum* Moench. The culture was cultivated in Murashige and Skoog nutritive medium with growth regulator: 2,4-dichlorophenoxyacetic acid (1 ml/l). The ultrasound was used as abiotic elicitor (0,1 W/cm<sup>3</sup>, 35 kHz) for time period of 1, 2, 3, 4 and 5 min. The samples were taken 0, 6, 12, 24, 48, 72 and 168 hours after elicitation. The kontrol samples (without the influence of ultrasound) were taken 24 and 168 hours after elicitation. The amount of rutin was analyzed by HPLC.

Suspension culture of *Fagopyrum esculentum* Moench. didn't produce any rutin under the influence of ultrasound. No release of rutin into the nutritive medium was observed during this study.