

## The effects of mulberry leaves enrichment with Asparagine amino acid on biological and economic parameters of silkworm *Bombyx mori* L.

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### Abstract

The effects of mulberry leaves enrichment with Asparagine amino acid biological parameters and economic characters of silkworm *Bombyx mori* L. were studied in Natanz, Iran. Different concentration of Asparagine treatments including 10, 100, 500 and 1000 mg/ml diluted by distilled water. Normal leaves and treated with distilled water were used as controls. Silkworm larvae fed on enriched mulberry leaves, once a day. All biological and economic parameters were measured by using standard techniques in sericulture. Results showed that enrichment of mulberry leaves with Asparagine had not significant effects on biological parameters and economic characters in treatment groups compared with controls. According to the results of this investigation, mulberry leaves enriched with Asparagine amino acid could not increase silk production, therefore the mentioned concentrations are not recommend in Natanz of Isfahan province.

**Key words:** Silkworm, Enrichment, Biological parameters, Economic characteristic

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