

Turkish Journal of Zoology

Turkish Journal
of
Zoology



The Efficacy and Longevity of VectoBac® 12 AS and VectoBac® G (both based on *Bacillus thuringiensis* subsp. *israelensis*) for the Control of Mosquitoes in Turkey

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Abstract: Under the field conditions of the Gölbaşı district of Ankara, commercial preparations of VectoBac® 12 AS (aqueous suspension) and VectoBac® G (corn cob formulation), both based on *Bacillus thuringiensis* subsp. *israelensis* (H-14), were tested against *Anopheles sacharovi*, *An. maculipennis*, *Culex pipiens*, and *Cx. theileri* larvae at the edge of a lake, a flood plain, and a swamp. Applying VectoBac® 12 AS at the rate of 1.0-1.25 l/ha and VectoBac® G at 7.5-10.0 kg/ha produced excellent initial control (90%-100%) of all mosquito larvae under Central Anatolian conditions. An increase in larval mortality was detected in all treatments as dose rates increased, but there was no significant difference between dose rates and residual activity on post-treatment day 20 ($P > 0.05$).

Key Words: Mosquito, biocontrol, *Bacillus thuringiensis israelensis*, field application, Turkey

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Turk. J. Zool., **31**, (2007), 317-323.

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