2027 | Volume Volume - 12 - Issue Issue - 1

In this issue

Review Article

Open Access Review Article PTZAID:JVI-12-162

Towards a Sustainable Cattle Tick Control: An Integrated Vaccination Strategy for Acaricide Resistance Mitigation

Published On: August 07, 2026 | Pages: 001 - 007

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Cattle ticks are among the most economically important ectoparasites affecting livestock production worldwide, causing substantial economic losses through reduced weight gain, decreased milk yield, hide damage, and the transmission of tick-borne diseases, including babesiosis and anaplasmosis. For decades, chemical acaricides have been the cornerstone of tick control ...

Abstract View Full Article View DOI: 10.17352/jvi.000062