



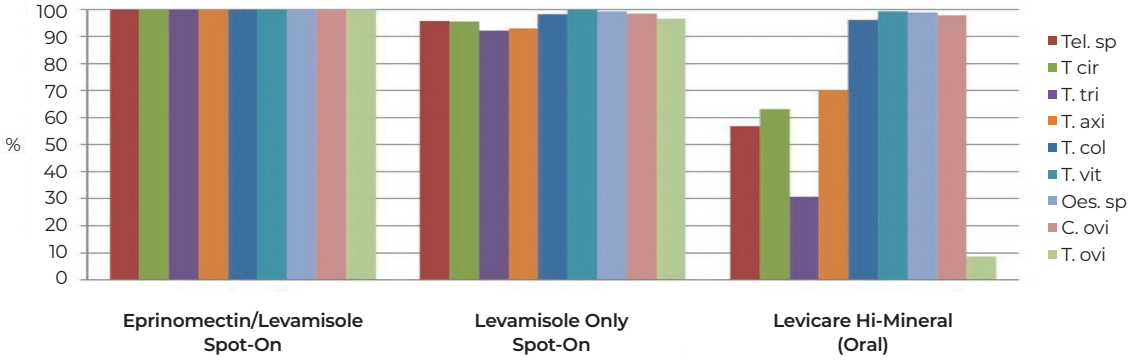
# Why does Tison work so well?

Some farmers have asked how a product with only two actives in it has efficacy against worms displaying triple resistance that triple active orals can't kill.
A Total Worm Count study was conducted against some resistant worms not only using Eprinomectin/ Levamisole Spot-On but also some other products to see where the efficacy of Tison was coming from. These products included a straight Levamisole Spot-On and an oral Levamisole product.

The parasites on this farm showed some pretty severe resistance to Levamisole. This was with multiple species of worms including *Teladorsagia sp.* and *Trichostrongylus axei*.

The interesting part is how well Levamisole alone as a spot-on worked against these worms. This spot-on was an identical formulation to Eprinomectin/ Levamisole Spot-On minus the eprinomectin portion. Although there was still some resistance evident it is easy to see from the graph below that in a spot on formulation, Levamisole worked much better than an oral drench against these resistant worms. Not only does this show that spot-on formulations can work in sheep but they can in fact out perform oral formulations.

## Total Worm Count Efficacy




## Why Tison Spot-On out performs oral formulations

The levels of Levamisole in the blood after treatment with Tison are present for longer than published levels for an oral Levamisole formulation. The half-life of oral formulations has shown to be only 30 minutes compared to the 4 ½ hours with Eprinomectin/ Levamisole Spot-On.

When you add eprinomectin to this, efficacy against all these parasites was 100%. A truly outstanding result that gives farmers confidence when using Tison, even when they have had concerns about resistance in the past.

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16 Sheffield Crescent, Christchurch | sales@inovata.co.nz | **inovata.co.nz**

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