

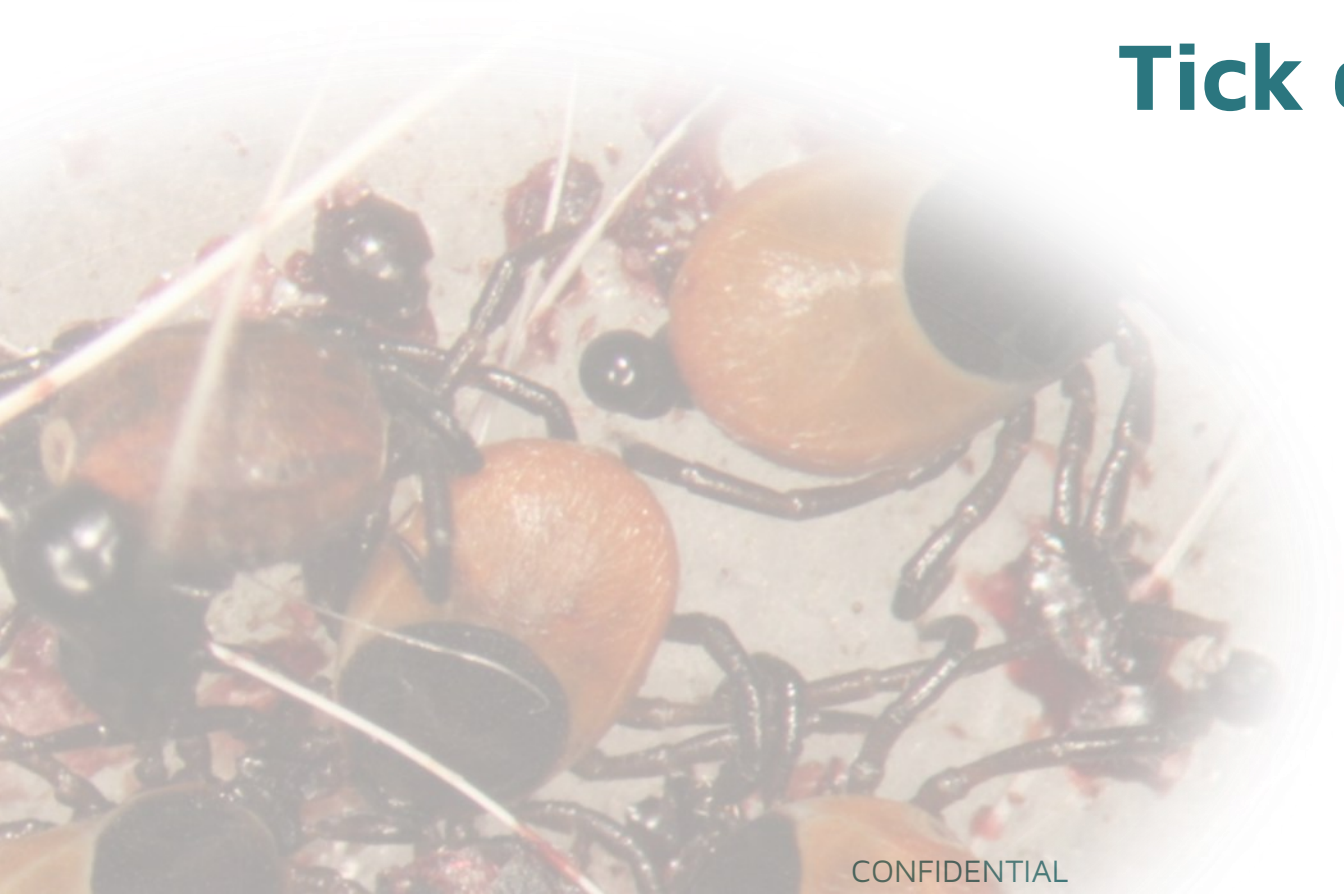


invenesis
A BIOSCIENCE COMPANY



Tick oral assays

An overview

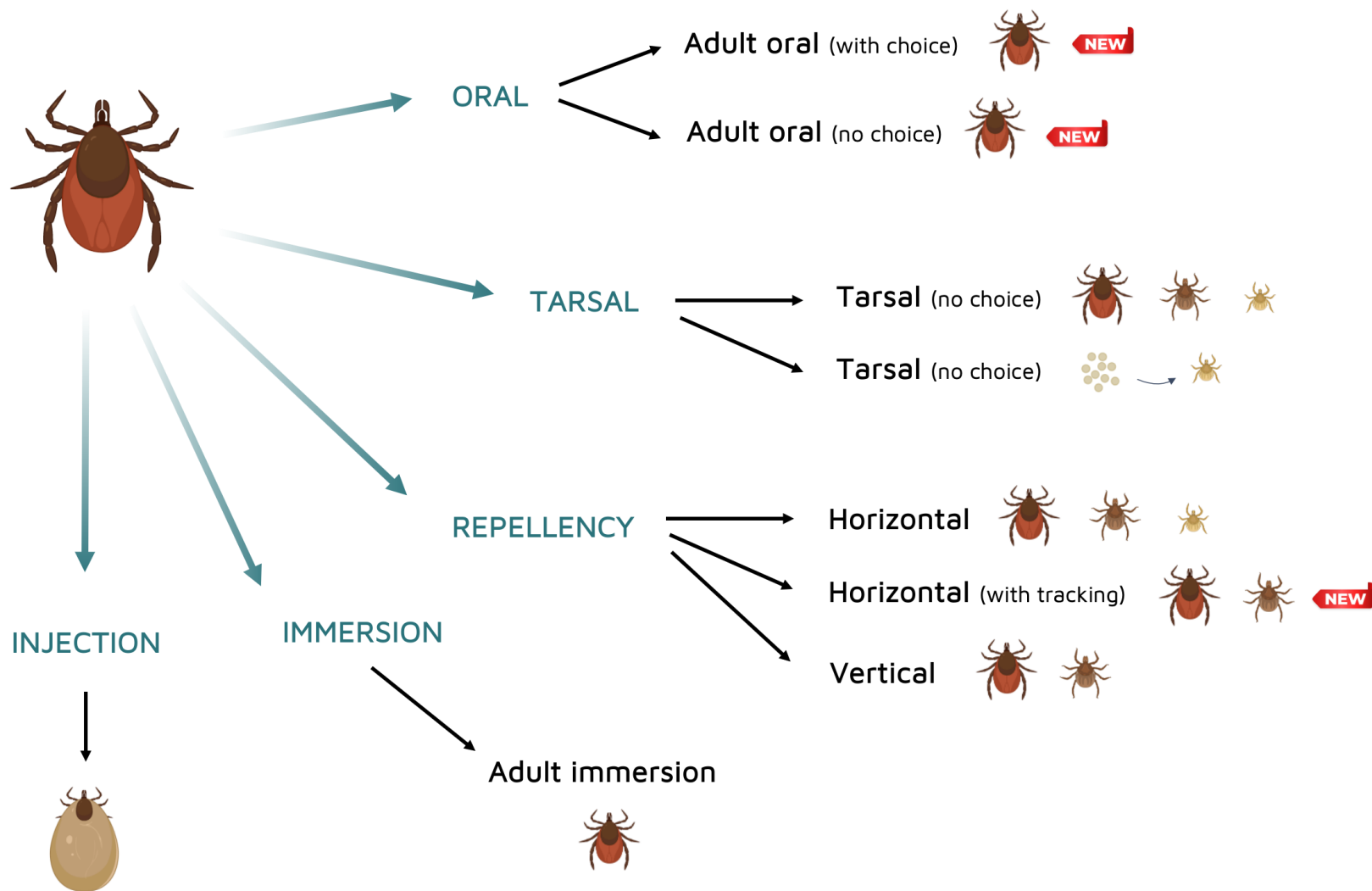


2025

CONFIDENTIAL



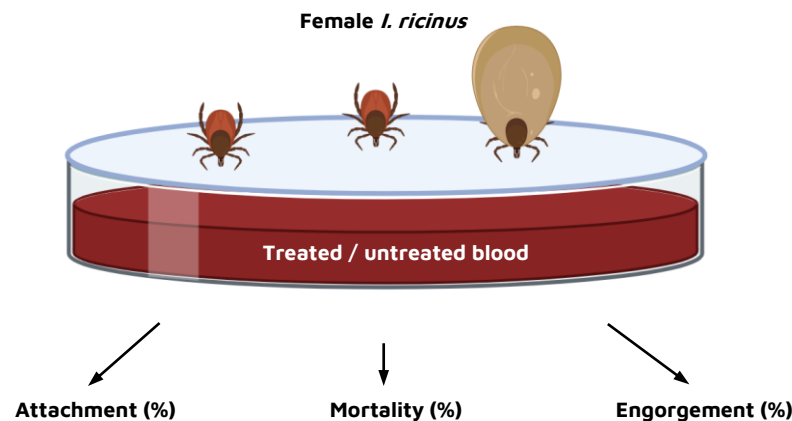
Invenesis' tick assays





Tick oral with choice

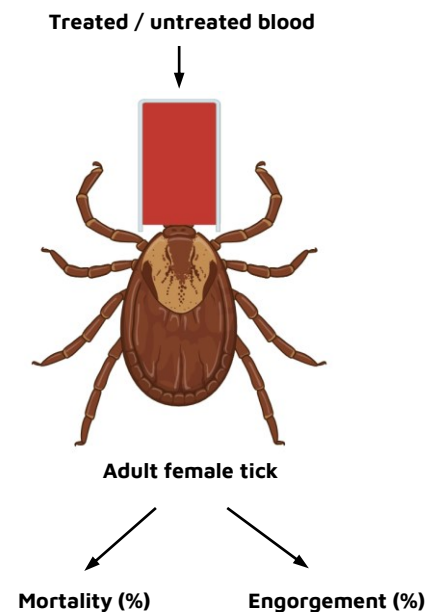
- **INV-T-020**: membrane-based feeding
- **Species**: *Ixodes ricinus* (adult male and female)
- **Readout**: attachment; mortality; engorgement
- **Treatment duration**: 72h (with daily blood change)
- **Stock solution**: 20 mM in DMSO
- **Compound quantity**: < 15 mg
- **Positive control**: fluralaner
- **Throughput**: 50 monoplicates per week (including controls); duplicates per dose
- **Pricing**: conversion factor of 25.77





Tick oral without choice

- **INV-T-049**: no choice feeding
- **Species** (adult female):
 - *Ixodes ricinus*
 - *Amblyomma americanum*;
 - *Dermacentor variabilis*
 - *Rhipicephalus sanguineus*
- **Readout**: mortality; engorgement
- **Treatment duration**: 48 to 72h (with blood changed twice a day)
- **Stock solution**: 20 mM in DMSO
- **Compound quantity**: < 5 mg
- **Positive control**: fluralaner
- **Throughput**: 80 monoplicates per week (including controls) ; five replicates per dose
- **Pricing**: conversion factor of 8.14

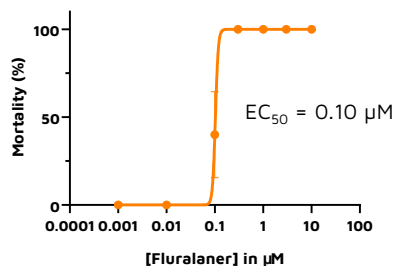




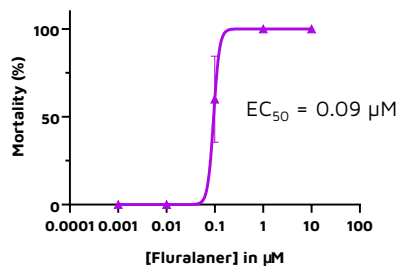
Fluralaner activity

- **INV-T-049**: no choice feeding (72h)

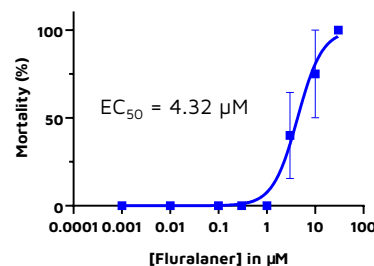
D. variabilis



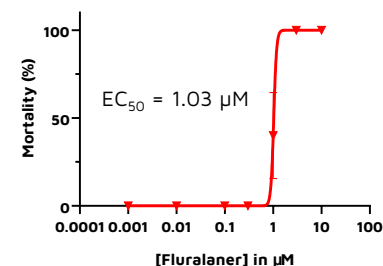
I. ricinus



A. americanum

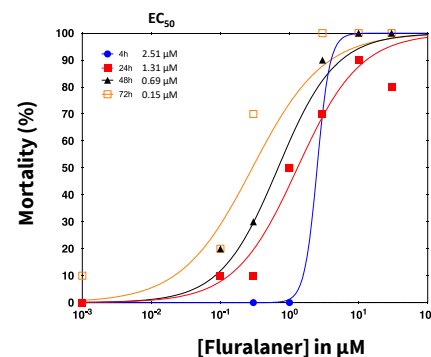
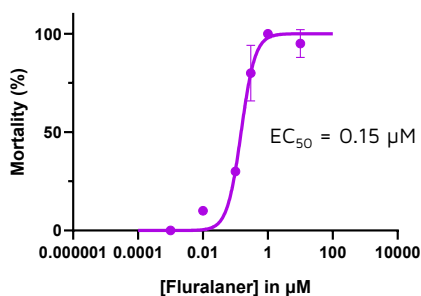


R. sanguineus



- **INV-T-020**: membrane-based feeding (72h)

I. ricinus





INV-T-020

I. ricinus



0.1 % DMSO



10 µM Fluralaner



INV-T-049

D. variabilis



10 µM Fluralaner



0.1 % DMSO

A. americanum



10 µM Fluralaner



0.1 % DMSO

I. ricinus



10 µM Fluralaner



0.1 % DMSO

R. sanguineus



10 µM Fluralaner



0.1 % DMSO