



TyraTech[®] Essential Oil Screening Process

TyraTech uses a patented process to discover blends of plant-based essential oils that are highly efficacious against pestiferous insects and endoparasites while at the same time are very safe for humans. This process starts by cloning invertebrate-specific receptors. Cells expressing these receptors are then used in an advanced screening assay that rapidly identifies oils that bind to the receptors, thereby leading to activation and release of intracellular calcium. Activity and synergy of blends of the most potent oils is verified via bioassays utilizing the roundworm, *Caenorhabditis elegans* and various public health insect pests including German cockroaches (susceptible and pyrethroid-resistant strains), houseflies, fleas, ticks, and mosquitoes.