



TECHNOLOGIES, INC.

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To: WHOM IT MAY CONCERN

### SOLE SOURCE LETTER

Rad Source Technologies, Inc., operating as Sterile Insect Farms (SIF) is the sole rearer and distributor of the X-ray-only sterilized *Aedes aegypti* mosquitoes using Rad Source's patented Quastar© X-ray technology (US 9,818,569 B2) intended for use as pest control.

The uniform sterilization of mosquitoes is achieved through a patented device and method, known as the canister rotator, which delivers consistent X-ray irradiation to materials contained within a plurality of containers (US 7,515,686 B2).

SIF mosquitoes are not genetically modified, do not use Wolbachia, and are male-only (non-biting) mosquitoes. All SIF mosquitoes come from a clean laboratory environment.

A key feature of Quastar X-ray technology is its use of through-transmission X-ray, a notable advancement from the traditional point source X-ray, which has been largely unchanged since its development in 1895 and refinement in 1920. This distinction is crucial because Quastar's approach ensures that mosquitoes are exposed to a significantly higher number of high-energy X-ray photons. By naturally filtering out lower energy photons, Quastar technology delivers a higher flux of high-quality photons, leading to more effective and superior sterilization.

All of these things result in Quastar sterilized mosquitoes that have received the most uniform dose at the optimal sterilization energy, therefore Rad Source is unaware of any other *Ae. aegypti* mosquitoes that have been sterilized using this technology.

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