

# Research Confirms Kills & Controls Darkling Beetles PLUS Controls Salmonella!



**Adult Darkling Beetle**  
*Alphitobius diaperinus*

Darkling Beetles can pose a formidable threat to poultry operations. Understanding and managing these insects is crucial for safeguarding poultry, facilities, and economic interests. To help combat the costly problems with darkling beetles, Arkion® Life Sciences is excited to announce the all-new, all-natural **Beetle Spray Plus for Poultry** which offers a unique, patent-pending formulation that helps keep control darkling beetles in poultry facilities, PLUS major strains of salmonella.

## Beetle Spray Plus Kills and Controls Darkling Beetles

Beetle Spray Plus is formulated with a proprietary blend of naturally occurring essential oils and inert ingredients with proven performance when combating darkling beetles in poultry facilities.

In a recent study by a major university, poultry litter treated with **Beetle Spray Plus** showed nearly 100% mortality of darkling beetle adults and larvae when in contact with the treated litter.



**Darkling Beetle Larvae**  
*Lesser Mealworms*

Plus, **Beetle Spray Plus** is OMRI Listed for the organic poultry production facility compliance.



Plus, **Arkion Beetle Spray Plus** provides outstanding performance and has a cost-per-treatment that is competitive with other natural and synthetic darkling beetle control products.

## PLUS

### Beetle Spray Plus Controls Salmonella Bacteria

**Beetle Spray Plus** is also a proven combatant against the three main types of salmonella bacteria found in poultry operations:

- Salmonella Enteritidis
- Salmonella Enterica
- Salmonella Typhimurium



According to a research by an independent poultry research group, **Beetle Spray Plus** resulted in significantly lower salmonella levels and the tests also showed that **Beetle Spray Plus** hindered growth of new bacteria when tested in contaminated litter. The study also showed lower in-bird salmonella contamination levels.

Performance results of the study demonstrated a significant increase in feed intake by birds in pens treated with **Beetle Spray Plus** along with a significantly lower mortality rate.

### Key Benefits of Beetle Spray Plus:

- Environmentally Responsible
- Natural Formulation
- Powerful and Cost-Efficient
- OMRI listed for organic production
- Minimum Risk 25(b) compliant

When combined with integrated pest management (IPM) strategies, **Arkion Beetle Spray Plus for Poultry** can help significantly reduce beetle populations.

Plus, **Arkion Life Sciences** offers expert guidance and support regarding the application, optimal use, and integration of for poultry to ensure effective control for the darkling beetles plus salmonella.

Scan for more.



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