**Table S1:** Ingredients for artificial *Spodoptera frugiperda* diet used in maintaining the laboratory culture.

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| **Ingredient** | **Amount** |
| Agar | 50g |
| Distilled water | 3325mL |
| Soybean flour | 340g |
| Raw wheat germ | 240g |
| Brewer’s yeast | 200g |
| L-Ascorbic acid | 12g |
| Nipagin | 12g |
| Sorbic acid | 4g |
| Sweet corn | 150g |
| Mould inhibitor  (Propionic acid, Phosphoric acid, Distilled water (7:1:9)) | 11mL |