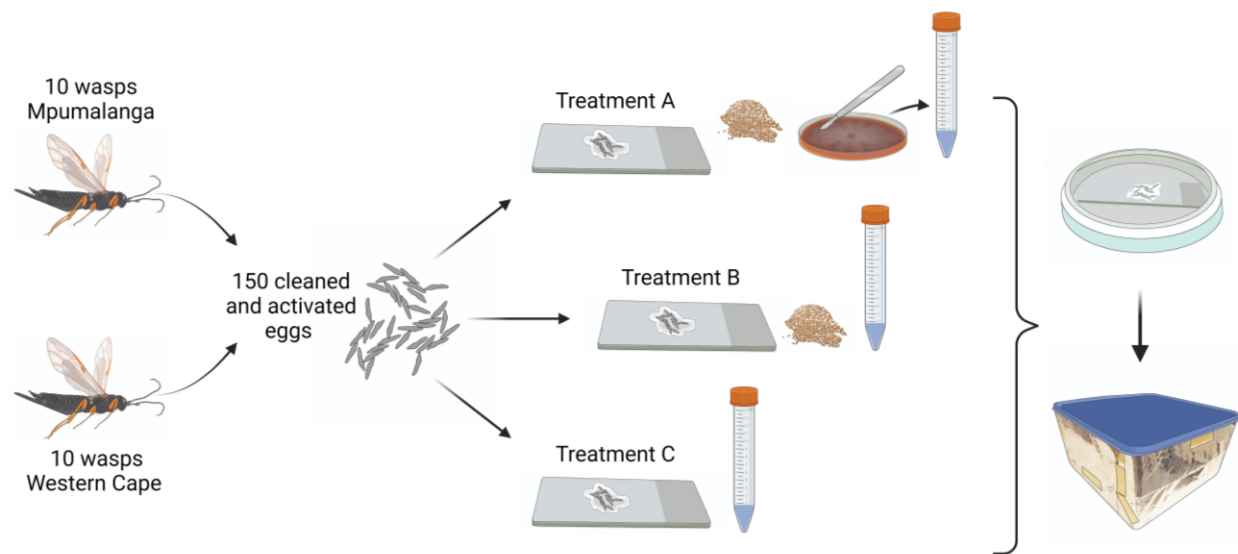


## SUPPLEMENTARY MATERIAL

**Table S1.** *Pinus* sp. log batch information

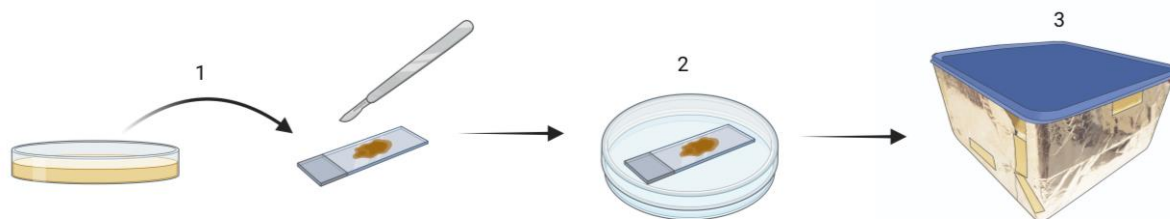
Batch no.	Province	Area	<i>Pinus</i> sp.	<i>Pinus</i> sp. age (years)	Emergence season
1	Western Cape	Riversdale	<i>Pinus radiata</i>	28	Mar-Apr 2021
2	Mpumalanga	Sabie	<i>Pinus patula</i>	12-16	Oct-Nov 2022
3	Western Cape	Riversdale	<i>Pinus radiata</i>	24	Feb-Mar 2023



**Figure S1.** Treatments applied after egg activation of 10 *Sirex noctilio* female wasps from Mpumalanga and Western Cape. Each treatment contained 50 cleaned and activated eggs which was stored on a microscope slide inside a Petri dish with damp filter paper. Petri dishes were placed in a cake saver, covered in tinfoil, inside a dark incubator. (Illustration created in BioRender.com. Illustration components created by Glenda Brits, Senior Graphic Designer, Department for Education Innovation, University of Pretoria, South Africa).

**Table S2.** Ingredients for *Sirex noctilio* artificial diet with manufacturers

Ingredient	Manufacturer	Amount
Distilled water		257.81 ml
Agar	Sigma-Aldrich (A7921-100G)	8.20 g
<b>Group 1</b>		
Raw wheat germ	Sigma-Aldrich (W0125)	19.92 g
Torula yeast powder	Sigma-Aldrich (51475-500G)	10.55 g
<b>Group 2</b>		
Wesson salt mixture	MP Biomedicals (CAT NO. 902851)	1.05 g
Sorbic acid	Natural Resources Canada	0.73 g
Methyl paraben	Natural Resources Canada	0.73 g
Sucrose (or household sugar)	Natural Resources Canada	5.86 g
Casein from bovine milk	Sigma-Aldrich (C6554-500G)	3.52 g
Sodium propionate	Natural Resources Canada	0.45 g
<b>Group 3</b>		
Cholesterol	Sigma-Aldrich (C8667-5G)	0.35 g
Autoclaved wheatgerm oil	Essentially Natural	1.64 ml
<b>Group 4</b>		
Choline chloride	Sigma-Aldrich (C7527-100G)	0.09 g
Vanderzant vitamin mixture for insects	Sigma-Aldrich (V1007-100G)	1.55 g
Vitamin A beadlets	Natural Resources Canada	0.12 g
<b>Group 5</b>		
Alpha cellulose	Sigma-Aldrich (C6429-500G)	45.70 g
<b>Group 6</b>		
Streptomycin sulfate salt	Sigma-Aldrich (S9137)	0.3 g
SABAX pour water	Adcock Ingram	2 ml
<b>Group 7</b>		
Autoclaved pine sawdust		50 g



**Figure S2.** Rearing of *Sirex noctilio* larvae emerged from activated eggs. **(1)** A small amount of diet was placed on a microscope slide and grooves were made on the diet surface using a scalpel. **(2)** The slide was placed in a Petri dish with damp filter paper and larvae were transferred onto the diet whereafter the Petri dish was sealed with Parafilm. **(3)** Petri dishes were stored in a cake saver covered in tinfoil inside a dark incubator. (Illustration created in BioRender.com. Illustration components created by Glenda Brits, Senior Graphic Designer, Department for Education Innovation, University of Pretoria, South Africa).