

Supplementary Material

Bacterial community profiling and identification of bacteria with lignin degrading potential in different gut segments of the African palm weevil larvae (*Rhynchophorus phoenicis*)

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Supplementary Data

1.0 NAP buffer recipe (1 Litre)

Weigh and dissolve the following reagents in 800mls distilled water in a volumetric flask.

Reagent	Amount required.
EDTA	7.44g
Sodium citrate trisodium salt dihydrate	7.35g
Ammonium sulfate	700g

Use H₂SO₄ to adjust the pH of the solution to 5.2 and make up to 1L with distilled water.

2.0 Field collection of APW larvae

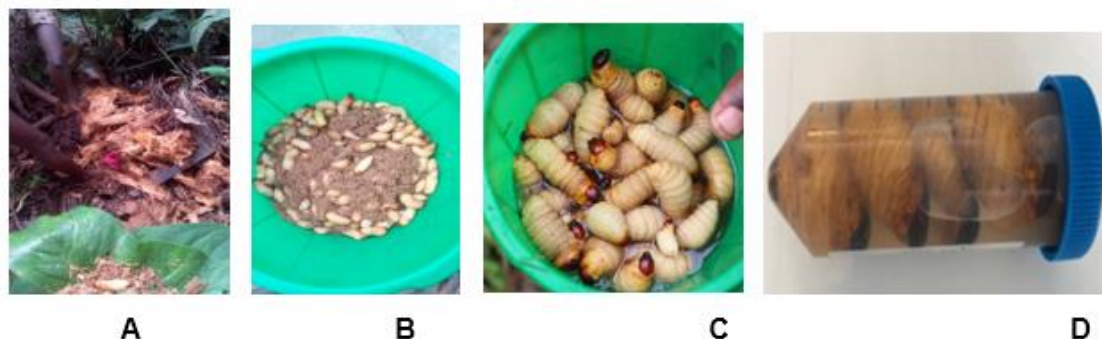


Figure 2: Pictures from larvae collection and preservation

A: Felling and hacking down of palm tree to access the APW larvae; B: Harvested larvae in a plastic bowl with chopped parts from palm tree trunk; C: Surface sterilization of APW larvae; D: Sterilized larvae packaged in NAP buffer

4.0 Ethical approval



Research, Innovation and Academic
Engagement Ethical Approval Panel

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Jessica Lenka

Dear Jessica,

RE: ETHICS APPLICATION STR1718- 46 : Identification and characterisation of novel lignin degrading enzymes through metagenomics.

Based on the information you provided, I am pleased to inform you that your application STR1718-46 has been approved.

If there are any changes to the project and/ or its methodology, please inform the Panel as soon as possible by contacting S&T-ResearchEthics@salford.ac.uk

Yours sincerely,

A handwritten signature in black ink that reads 'A Higham'.

Dr Anthony Higham
Chair of the Science & Technology Research Ethics Panel

