

Impregnation of pectin-cedarwood essential oil nanocapsules onto mini cotton bags improves larvicidal performances

Smriti Kala^{1,2*}, Nisha Sogan³, S.N Naik² Amrish Agarwal¹, Jitendra Kumar¹

¹Formulation Division, Institute of Pesticide Formulation Technology (IPFT), Gurugram- 122016, Haryana, India

²Center for Rural Development Technology (CRDT), Indian Institute of Technology (IIT) Delhi- 110016, India

³National Institute of Malaria Research (NIMR), Delhi-110077, India

Contact details of Authors:

Smriti Kala: smritikl16@gmail.com

S.N Naik: naiksatya581@gmail.com

Nisha Sogan: nisha.singla09@gmail.com

Amrish Agarwal: amrish.ag@hotmail.com

Jitendra Kumar: jitendra.24@gmail.com

***Author for Correspondence:**

Smriti Kala
Scientist (Formulation)
Institute of Pesticide Formulation Technology (IPFT)
(Ministry of Chemicals & Fertilizers, Government of India)
Gurugram - 122016 (Haryana) India
Email: smritikl16@gmail.com, smritikl@yahoo.co.in

Supplementary figure legends

Figure S1: Illustration of pesticides formulation and their handling risks

Figure S 2: Preparation of CWO loaded nanocapsules via ionic gelation and impregnation of nanocapsules on tea bag

Figure S3: Gas chromatogram of cedarwood essential oil along with chemical structures of major compounds of oil A) Alpha Himachlene B) Beta Himachlene C) Atlantone Trans-, Alpha.

Figure S4: Mechanism of adhesion of pectin nanocapsules on cotton fiber in presence of acrylate.

Figure S1:

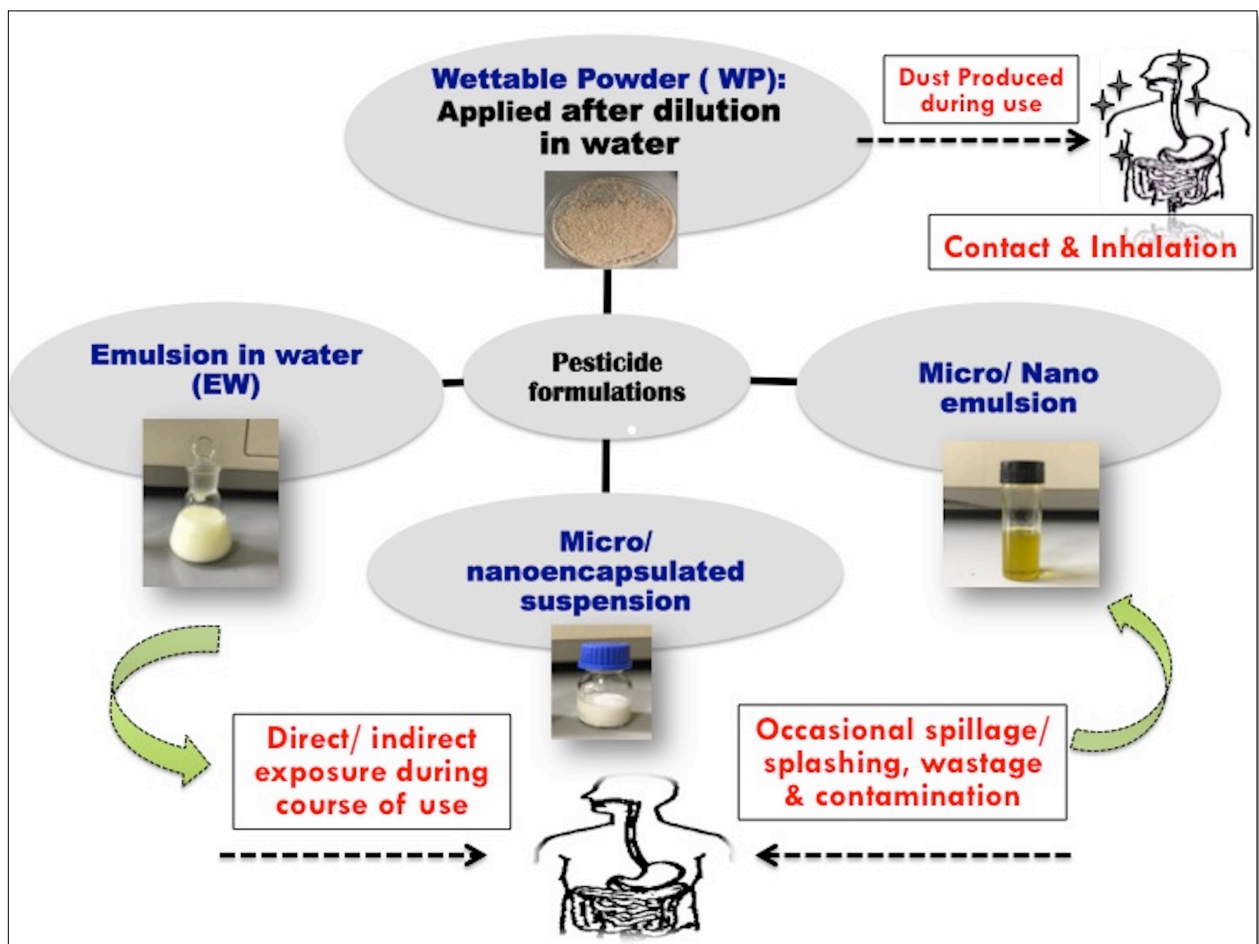


Figure S2

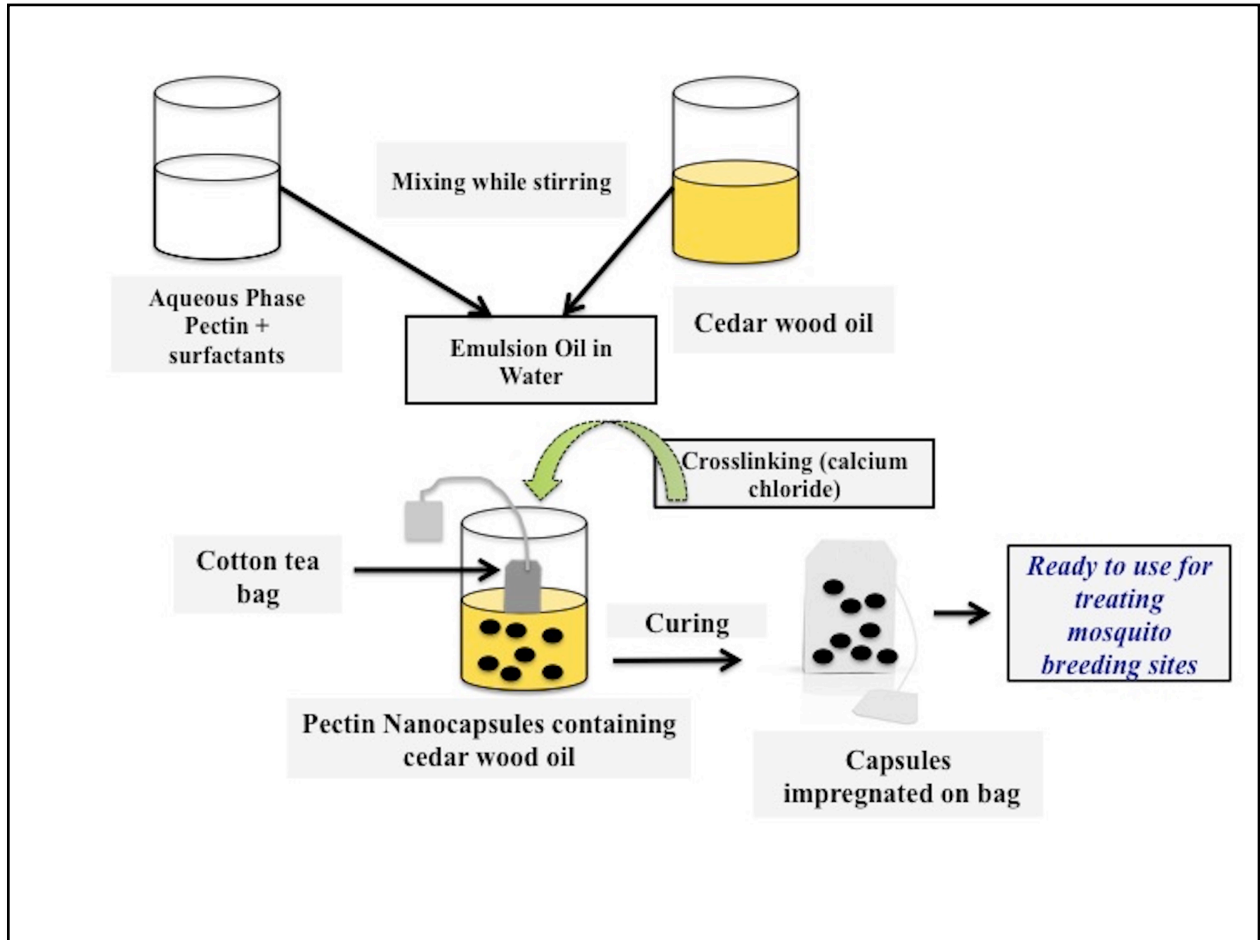


Figure S3

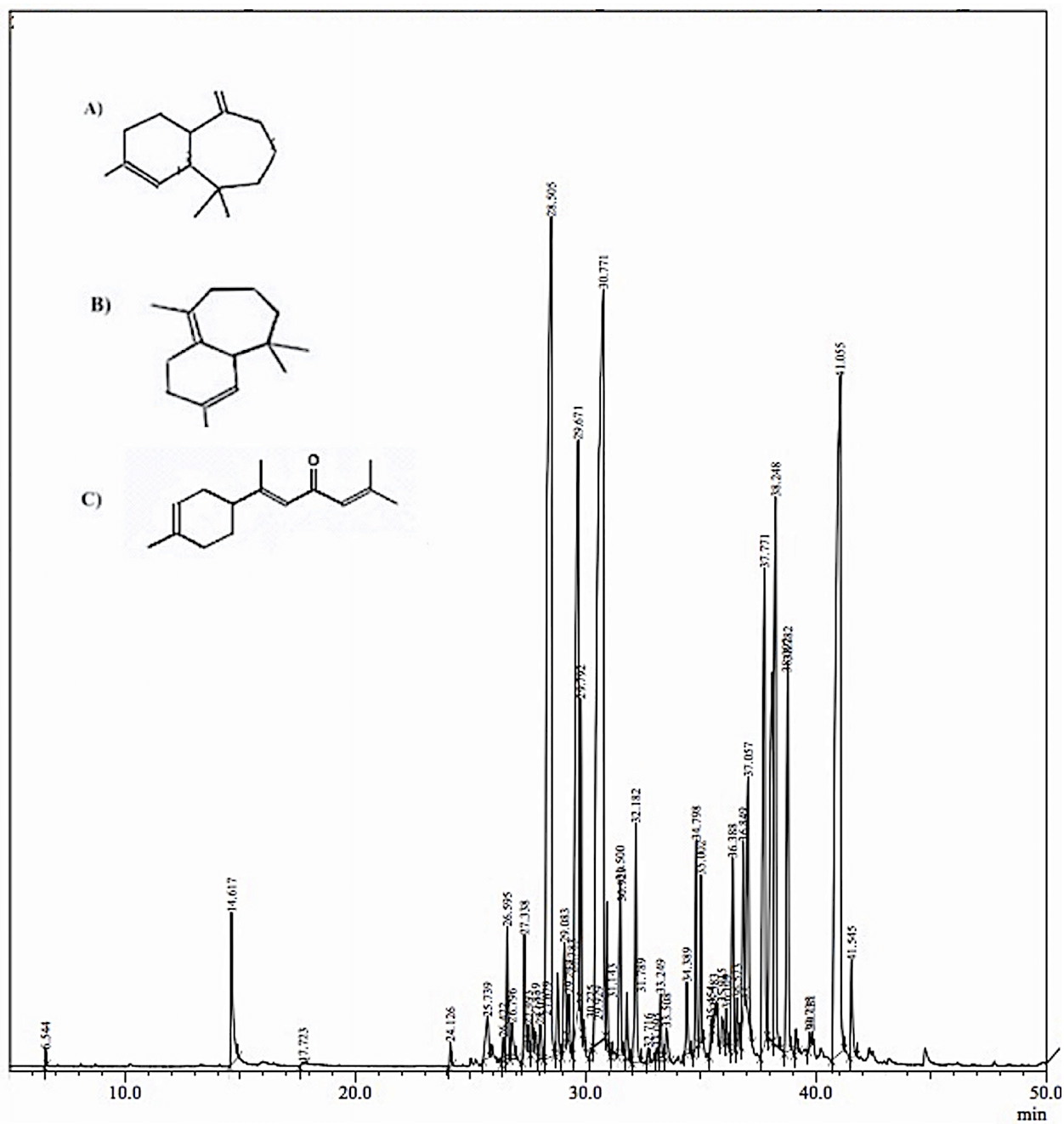


Figure S 4

