

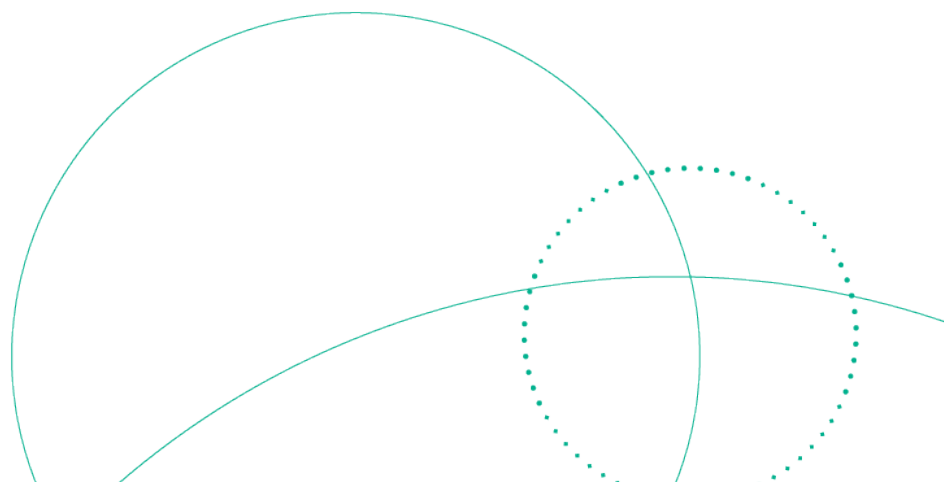
WHO Prequalification Programme / Vector Control Product Assessment

WHO Public Assessment Report: WHOPAR Part 5

Yorkool G1 Recycled LN
(Tianjin Yorkool International Trading Co., Ltd)

P-13409

Efficacy Assessment



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1. Introduction

The primary purpose for the use of a pesticide is the control of a pest, including disease transmitting vectors. Vector control tools, including formulated pesticides, which provide effective management or control of vectors, may be used as part of a resistance management programme. Vector control products for use in public health are a component of Integrated Vector Management (IVM), which is a programme that relies on a suite of diverse interventions and implementations of best practices to manage the vector and chemical/behavioural resistance.

Yorkool G1 Recycled LN is a homogenous ITN coated with deltamethrin 1.4 g AI/kg that is intended to provide personal and community protection from Anopheline mosquitoes as part of malaria control programmes.

Semi-field studies that were previously submitted and assessed supporting the prequalified product Yorkool G1 (P-11664) were submitted to characterize the performance of Yorkool G1 Recycled LN against free-flying mosquitoes.

Supplementary bioassays were included to characterize the availability of active ingredients and insecticidal effect of the fabric of the ITN on Anopheline mosquito species.

2. Semi-field studies

The data submitted for Yorkool G1 LN (P-11664) were submitted for Yorkool G1 Recycled LN. This bridging approach was deemed acceptable to support the prequalification of the product based on the demonstration of substantial similarity of the two products despite the difference in defined starting material and consistency of manufacturing release specifications for the two products. It is not expected that there would be any deviations in performance between the two products. Therefore, for full information on the supporting studies, please refer to the Yorkool G1 LN WHOPAR Part 5.

3. Efficacy conclusions

Based on the studies and information provided, all data requirements for the prequalification assessment of product efficacy have been satisfied. These data have been relied upon to assess the bioavailability and the impact on free-flying mosquitoes of the proposed product for the purpose of characterising the fabric of the product and establishing the duration of biological impact using products prepared with a defined wash interval.

The efficacy component of the dossier is considered complete, and the assessment of the submitted information on efficacy supports prequalification of the product.

Table 5. List of efficacy studies submitted to WHO as part of the prequalification dossier

Studies that were relied upon for decision making	
Study number	Study title
20-10	Experimental hut evaluation of the efficacy and wash resistance of Yorkool LN (a deltamethrin only net) by Tianjin Yorkool International Trading Co., Ltd against pyrethroid resistant <i>Anopheles gambiae</i> sl in Cove, Southern Benin
BIT073 WP5	An experimental hut evaluation of Yorkool long lasting insecticidal nets (LN) in comparison to PermaNet 2.0 LNs against wild mosquitoes in Tanzania
21193	Active ingredient analysis of different nets collected from the Yorkool LN Phase II Semi field hut study before and after subjecting to different washes – Determination of Deltamethrin content
TE2021-007	Chemical analysis of Yorkool LN Phase II semi field hut study
Studies that were not used to inform decision making	
	None