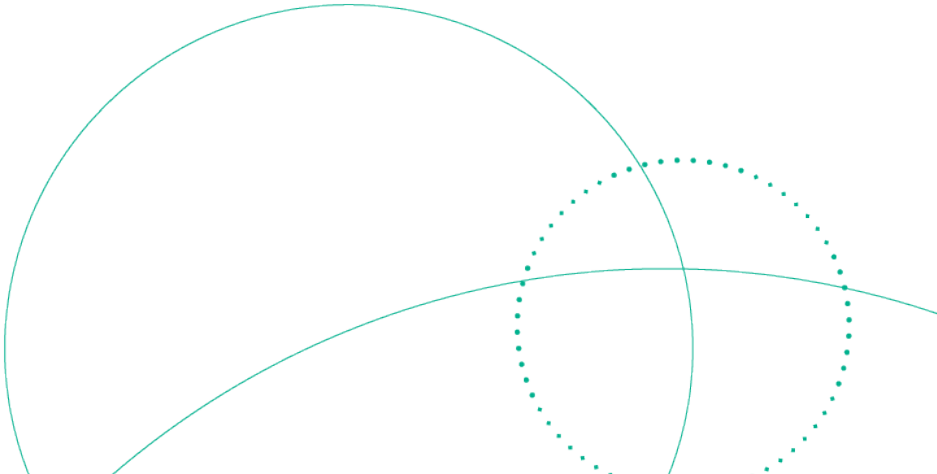
World Health Organization

WHO Prequalification Programme / Vector Control Product Assessment

# WHO Public Assessment Report: WHOPAR Part 5

## UNET G1 LN
## (Sino Africa Medical Devices Co., Ltd)
## P-13227

## Efficacy Assessment



# Contents

# 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.

UNET G1 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 UNET G1 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 that were submitted for Yorkool G1 (P-11664) were submitted for UNET G1. This was deemed acceptable to support the prequalification of the product based on the defined starting material and identicality 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 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 1. 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 *Anopheles gambiae* 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 filed 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 |