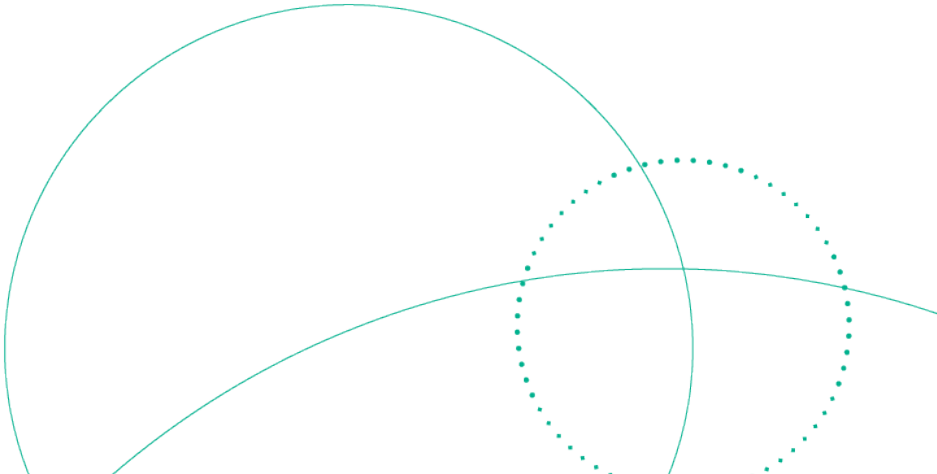
World Health Organization

WHO Prequalification Programme / Vector Control Product Assessment

WHO Public Assessment Report: WHOPAR Part 5

UNET G3 LN
(Sino Africa Medical Devices Co., Ltd)
P-13228

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.

UNET G3 LN is a homogenous ITN with deltamethrin 3.0 g AI/kg and piperonyl butoxide 11 g AI/kg incorporated into the yarn 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 G3 (PQ Ref. No. 021-003) were submitted to characterize the performance of UNET G3 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 G3 (PQ Ref. No. 021-003) were submitted for UNET G3. 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 G3 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**
BIT 059	The non-inferiority testing of Yorkool G3 LN in comparison to Olyset Plus LN and Permanet 2.0 LN in the experimental huts against wild mosquitoes in Tanzania.
20-06	WHO/PQ experimental hut evaluation of the efficacy and wash resistance of Yorkool G3 (a PBO and deltamethrin treated LLIN) by Tianjin Yorkool International Trading Co., Ltd against pyrethroid resistant *Anopheles gambiae* sl in Cove, Southern Benin.
BIT030	Chemical content analysis of Yorkool G3 LN at the Ifakara Health Institute (IHI) in Tanzania
Studies that were not used to inform decision making	
	None