

Fact sheet of Netprotect® - why Netprotect® is superior

Netprotect® features	Compared to other LLIN's	Evidence/Explanation	Advantage for the organisations	Advantage for the enduser
High strength	Polyethylene (PE) nets are more durable in the field compared to polyester (PES) nets. Expected lifetime of a PES net is 2-3 years. For PE nets, lifetime is 5-6 years.	Tanzania field study - Appendix 1	Value for money. More persons protected with the same amount of money. Replacement of nets less frequently.	There will be less holes in the net, offering better protection and safety.
Light weight	Compared to other PE nets, Netprotect® is much lighter (38 vs 44 g/sqm).	Fact sheet - Appendix 2	Lower transportation costs. Lower cost of the product.	
Available in all colours at no extra cost	PES net technologies are all based on surface coating. The coloration process on PES changes the kinetics of the surface, giving problems with the insecticide treatment.	WHO/RBM update - Appendix 3	Local customs can be accommodated. Specially important for social marketing programs. Colours can prolong the lifetime of the net as coloured nets are washed less frequently.	Local preferences for certain colours. The net looks less dirty in colours. The decorative effect.
Flexible mesh size	Compared to other PE nets, Netprotect® has a much finer mesh. In areas with pyrethroid resistance, a wide mesh offers no personal protection (study in the Ivory Coast).	Fact sheet - Appendix 2	Netprotect® can be delivered with mesh size tailored to the size of the vectors in a given area. Local preferences can be accommodated.	Fine mesh is perceived as being more safe.
Resistant to sunlight	Unlike other LLIN's, Netprotect® has a UV protection system that protects the insecticide against sunlight. Despite labelling, socioanthropological studies have shown that people dry their nets as they dry their cloth - flat or hanging in the sun.	Field study from Burkina Faso - Appendix 4	The nets stay efficient longer - more malaria protection	Netprotect® can be dried in the sun
Long lasting efficacy	Netprotect® has been evaluated by LIN, Montpellier, and efficacy was retained for at least 35 washes and stored at 40° between wash. This is up to double of other LLIN's.	LIN report - Appendix 5	The efficacy of Netprotect® will last for the lifetime of the net. No retreatment needed.	Protection throughout the life time of the net.
Environmentally friendly	Polyester net has shorter lifetime and thereby creates much more waste. Netprotect® waste material in the production is recycled. PE is more environmentally friendly than PES at disposal. PE can be recycled if collected, or burned.	Explanation - Appendix 2	Fulfilment of environmental policies.	Netprotect® creates less waste and thereby a better environment.
Fast regeneration at low temperature	Netprotect® regains full efficacy after washing within 2-3 days at room temperature.	Field study, K Lindblade, J Gimnic et al	Field studies show that it is extremely difficult to teach endusers to regenerate PE nets that does not regain it's efficacy at room temperature. With Netprotect® there is no need for training of endusers how to regenerate nets.	Convenient but basic problem is that regeneration of PE nets are never done therefore Netprotect® offers the efficient alternative.
Deltamethrin as active ingredient	Deltamethrin has the advantage over Permethrin that it is less susceptible towards metabolic resistance in malaria mosquitoes.	Field study from West Africa - Appendix 6	Value for money with regards to combating malaria	Better protection even in areas with pyrethroid resistance.