



Protection where it matters

a new control for house dust mites



House dust mites are found in all homes

There are up to 2 million dust mites living in a mattress

They trigger many allergic reactions, including asthma

Mystox DMK offers an effective solution

What are house dust mites?

House dust mites are minute, translucent creatures invisible to the human eye. They feed mostly on discarded human skin scales, thriving in warm and humid conditions.

Where do house dust mites live?

They can be found all around the home in soft furnishings, carpets etc. But house dust mites find a mattress the perfect breeding ground. With warmth, moisture, a plentiful source of food and no natural enemies, a high population of house dust mites will quickly become established in a mattress.

What is house dust mite allergy?

House dust mite allergy is a hypersensitive reaction to proteins in the excretion of dust mites. When these are inhaled or touch the skin, the human body produces antibodies, causing the release of histamine, a chemical that leads to swelling and irritation of the upper respiratory passages.

A new solution - Mystox DMK

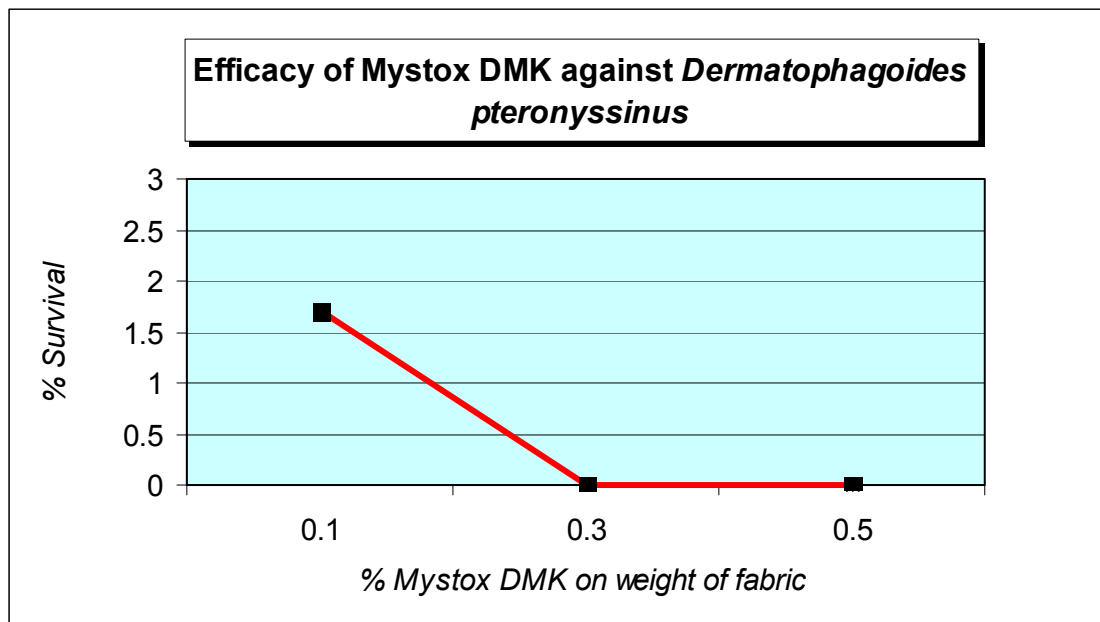
Mystox[®] DMK is a highly effective treatment for mattress ticking. Applied during ticking manufacture, at low concentrations it provides complete control of house dust mite populations.

Developed in co-operation with Janssen Pharmaceutica NV, Mystox DMK is based on Meganium[™], a novel compound with high activity against house dust mites. Independent testing has shown a 100% mortality for house dust mites introduced on to dust-soiled mattress ticking treated with as little as 0.3% Mystox DMK. It is suitable for a variety of ticking materials including cotton, polyester, viscose and blends.

Normal textile drying temperatures of up to 180⁰C will not diminish the effectiveness of the Mystox DMK treatment.

Mystox DMK Efficacy Assessment

In a study on the efficacy of Mystox DMK, commissioned from Pest Control Consults, an independent research laboratory specialising in mite and insect testing, Mystox DMK was found to confer complete control at application rates as low as 0.3%.



In the research programme, cotton mattress ticking fabric treated with Mystox DMK at levels of 0.1%, 0.3% and 0.5% on weight of fabric were soiled with a mixture of natural dust, additional skin scales and powdered yeast in order to produce a realistic and nutrient-rich habitat for the house dust mites. The report states.....

“.....this semi natural system takes into account the role of dirt. Dust and dirt that is present on all surfaces in the home have a markedly protective effect against chemical and mechanical destruction methods.”

Samples were maintained at ideal conditions of temperature and humidity for mite development. Twenty five male and twenty five female healthy adult mites of the species *Dermatophagoides pteronyssinus* were placed onto each of the test samples.

*“.....the mite used in the test was *Dermatophagoides pteronyssinus*. This species was selected because of its worldwide geographical distribution.”*

The test ran for six weeks, sufficient to permit the development of at least two generations of mite under such optimal thermo hygrometric conditions.

After the test period, the surviving live mites were quantified, and the survival rate expressed relative to the average number of live mites on untreated fabric samples.

The report concludes.....

“.....between 650 and 750 mites were recorded from replicates of the untreated sample. The treatment (Mystox DMK) at 0.3% and 0.5% proved to be very effective against house dust mites. No mites survived.”

The study thus confirms the effectiveness of Mystox DMK in providing complete control of house dust mites.

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