



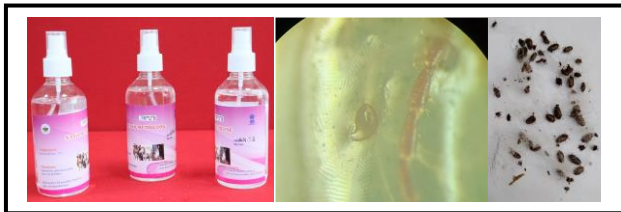
BCIL Biotech Consortium India Limited

Nanomethicone spray

TECHNOLOGY AVAILABLE FOR TRANSFER

UNMET NEED AND OPPORTUNITY

- Most of the commercial acaricide groups such as organochlorine, organophosphate, pyrethroids, formamidines, phenylpyrazole and macrocyclic lactones kill the ticks by acting on the nervous system of the ticks.
- Additional care should be taken to apply these acaricides on animals as they are toxic to animals and humans and necessitates the supervision of veterinarians.
- Resistance to acaricides has been reported and hence an effective, non-toxic, eco-friendly and residue free acaricides are the need of the hour for sustainable animal production and health.
- Nanomethicone is a novel patented, safe and eco-friendly acaricide formulation to control hard ticks and lice of companion animals and livestock.
- It acts against hard ticks and lice, by physically blocking their spiracles which makes them difficult to breath and eventually causes death of the ticks and lice.
- This product does not have residual acaricidal activity and requires periodic application for desired effect.



STAGE OF DEVELOPMENT

- **TRL7 technology**, ready for scale up as per industry requirement.

INTELLECTUAL PROPERTY

- Patent granted in India.

UNIQUE SELLING PROPOSITION

- Eco-friendly, safe, odorless, locally acting, topical, and mechanical acaricide.
- Safest acaricide compared to the commercial acaricides as it consists of cosmetic grade chemicals.
- Leaves no chemical residues on animals.
- Kills the ticks by blocking the respiratory holes of ticks.
- Less prone for resistance development as it is a mechanical class acaricide.
- Improves the skin and hair coat of animals.

TECHNOLOGY

- It is an encapsulated 10% dimethicone silicon oil with 70 nm mean particle size in a suspension form.
- Encapsulation of dimethicone in Polyethylene Glycol (PEG) by oil emulsion method.
- This formulation blocks breathing hole (spiracle) of ticks, and kills them.
- The ticks in contact with this nano-formulation would drop-off or loosen their grip on animal body within 48-72 hrs.
- No need to cover the mouth of the animals after spraying nanomethicone as it is non-toxic.

LICENSING OPPORTUNITY

BCIL is looking for suitable industrial partner for commercialization of this technology.

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