TECHNICAL SHEET
DYNA-MITE® G-SYSTEM

BENEFICIAL ORGANISM: PREDATORY MITE

Family	Specie	Common name
Phytoseiidae	*Euseius gallicus* sp. nov. (Kreiter-Tixier,2010)	unknown

PREY

Euseius gallicus is a polyphagous predatory mite, meaning that it feeds on a wide range of prey. For a good population growth, it needs a satisfactory food source and prefers whitefly and thrips.
E. gallicus also feeds on pollen and in a certain degree on spider mites, tarsonemid mites and eggs of various insect pests.

CROPS

Dyna-Mite® G-System (*E. gallicus*) is the solution of choice in rose because of its ability to establish a stable population in combination with Nutrimite™. Other predatory mites, such as *A. swirskii*, are generally not able to establish a stable population in rose without prey.
Dyna-Mite® G-System has strong potential as a biocontrol agent against thrips and whitefly in certain ornamental crops (e.g. Anthurium,).

PRODUCT

Specifications:

Product name	**Dyna-Mite G-System**
Quantity	10.000 predatory mites
Package	1L cardboard bottle
Type of seal	sprinkler lid
Carrier	vermiculite

Storage:

Release the beneficials immediately after arrival.
If needed, store at 10° - 15°C (50° - 60°F), for max. 1 - 2 days after reception, not exceeding the expiry date.

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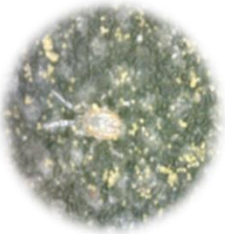
CHARACTERISTICS OF DYNA-MITE® G-SYSTEM

Biology:

Stage	Appearance		Life cycle
Eggs		- oval and translucent - on leaf hairs & leaf surface	- 1,7 eggs/day at 24°C (75°F) - cycle: 2 days at 25°C (77°F)
Immature stages		- semi-translucent - larva: 6 legs - nymphs: 8 legs	- cycle larva: 1 day at 25°C (77°F) - cycle nymphs: 3 days at 25°C (77°F)
Adult		- pear-shaped - blurred translucent - colour beige/white	- life span: ca. 21 days at 25°C (77°F) - total life cycle: 5-6 days, at 25°C (77°F) - overwinter in temperate climates, under barks, dead leaves and buds

Mode of action:

The predatory mite *Euseius gallicus* is a generalist. It eats and develops well on pollen too. In presence of its preferred prey, thrips and whitefly, *E. gallicus* establishes better in certain crops like roses, compared to other predatory mites. It reacts "explosively" on supplementary feeding with Nutrimite™, reaches sooner higher densities than any other predatory mite, resulting in a better thrips control than *A. swirskii*.

Conditions:

E. gallicus is active in a temperature range from 10°C (50°F) till 32 °C (90°F) and a relative humidity of > 50 %. The optimal conditions are 25 °C (77°F) and 70-80 % RH.

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APPLICATION

Recommended Strategy in Roses:

Dyna-Mite® G-System		Nutrimite ™
Euseius gallicus	+	Pollen food supplement

Dosage

Dyna-Mite® G-System:

Dosage	Interval	Sequence	Release area	Release period
50/m²/release	2 weeks	min. 2x	full field	end winter / early spring

Nutrimite™:

Dosage	Interval	Sequence	Release area	Release period
500 g/ha/application	2 weeks	year round-	full field	start with first release of Dyna-Mite G-System

Compatibility:

E. gallicus is more sensitive to pesticides compared to other predatory mites.
Avoid the use of sulfur during its population build up. Consult a Biobest advisor or our side effect list.

Note:

Recommended application strategy in other crops may be different from the one recommended for roses. Biobest is conducting tests in crops where *E. gallicus* has a high affinity. Consult a Biobest advisor for further details.

REGULATORY

The use of Dyna-Mite® G-System (*E. gallicus*) is currently limited to countries in which regulatory approval has been obtained. As of early 2014 the use in Belgium, France, Germany and The Netherlands is approved. Regulatory approval in other countries is being sought. Please consult Biobest for further information.

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