a new era in mating disruption!

NoMate SPIRAL

NoMate CM

NoMate CM is an advanced Codling Moth mating disruption system. Designed and manufactured in the United States by Scentry Biologicals, leaders in pheromone technologies since 1978.

NoMate CM is widely used and proven internationally. NoMate CM holds Taiwan Protocol approvals in both the United States and New Zealand. It is also BioGro certified (#: 2925 CO1)

NoMate CM is value for money, effective and efficient, its unique impregnated plastic spirals greatly reducing application time and the need for ladders.

NoMate CM releases at consistent rate from its surface area and can't be blocked by dust or dirt like tubes can.

NoMate CM is easy to apply and won't ring bark trees nor be blow away in the wind.

New Zealand Trials – Tested and Proven

NoMate CM has been trialled in the Hawke's Bay for two seasons on 8 orchards alongside current industry standard products. Trap counts, assessment of fruit in orchard, pack out and quality control inspections to the Taiwan protocol standards have shown no difference in efficacy.

Trial Summary 2008

Trials conducted to Taiwan Protocol Standard, site selected for medium to heavy codling moth pressure on commercial mature producing orchards. Both products hung 3rd October and at 1000 dispensers per ha.

Location		
Site 1	Havelock North	
Site 2	Taradale	
	Isomate C+	Nomate CM
Area Site 1	5.36 ha	5.27 ha
Area Site 2	1.91 ha	2.75 ha
Varieties Site 1	Mixed, Fuji, BB, RG	
Varieties Site 2	Fuji	
Results		
Traps - Taiwan threshold meet Site 1	2	4
Traps - Taiwan threshold meet Site 2	5	2
Bins - at Harvest incidents of damage	4	0
Pack house - Stings at packed fruit, old, total fruit 12255 inspected	4	4

Gro-Chem HORTICULTURE

Toll Free 0800 447 624 | www.grochem.co.nz

a new era in mating disruption!

NoMate SPIRAL

Application – Quick, Easy and Cheap

Reduction in application time = 30+% savings

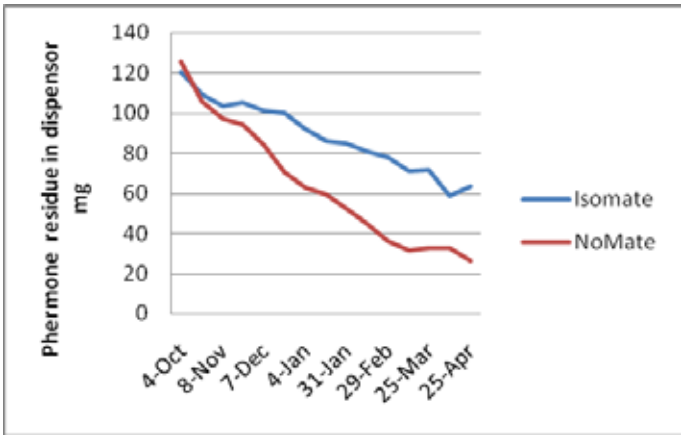
A time in motion study demonstrated that experienced hydro-ladder applicators applying dispensers to traditional mature M106 orchards of 888 trees per ha would take 1 hr 57 mins to apply 1000 NoMate CM spirals compared to 2 hrs 48 mins for 1000 Isomate C+, not including down time. A 30% reduction in application costs.

Phermone Release – Consistant, Season Long

To be effective a phermone release product must release and do it consistantly. To create confusion among the male moths there must be a maximum numbers of release points and large amounts of phermone present in the orchard.

Product	Residue failed to be released	Per Day release first 104 days	Per day release day 104 to 204
Isomate C+	57%	0.33 mg	0.28 mg
Nomate CM	23%	0.64 mg	0.49 mg

To determine if a product will be effective under New Zealand conditions we hung them in an orchard and sampled them fornightly over the season, measuring the residue remaining in the dispensor. This tells us the constancy of the release, life of the product and the residue or amount failed to be released.



Result – a consistent release pattern at a high rate was achieved comparing more than favorably to the control product.

CERTIFIED bio gro NEW ZEALAND CERT TM INPUT for ORGANICS 2925

International Data - Proven Reliability

The trial results below demonstrate the international work on the release pattern of NoMate and its consistency against other products in the market. This trial done by Washington State University looked at the release rate and loading of products on the market in Washington State at the time. Their findings show that Isomate C+ and NoMate CM under their climatic conditions to be the most consistent products in the market at the time.

140 Day Field trial of different dispensers

	Isomate C	I D	NoMate CM	D	C
Loading (mg)	128-140	265-265	139-147	128-175	287-288
Av release per day (mg)	0.67 – 0.7	1.05 – 1.15	0.75 – 0.81	0.42 -0.5	0.46 – 0.58
Dispensers per ha	1000	500	1000	500	300
Release rate per day per ha (mg)	685	550	780	230	156
Pheromone release	71-77	57-62	79-86	36-41	22-28
Consistency	High	High	High	Low	Low

Washington State University

Note: doubling the active content doesn't double the release rate!! And it certainly doesn't give the same amount of pheromone per hectare as the standard product.

Things to consider for the best results

- "The highest density of pheromone dispensers release sites yields the best orientation disruption of male codling moth to traps and lowest fruit damage" D.L. Epstein et al. (2006)
- The more release points the better result!
- Twice the active content per dispenser doesn't mean twice the release rate or twice the disruption.
- The larger the area treated the better.
- Edge effect: edges of blocks are more vulnerable to damage and intrusion from neighbors, bin stacks and host trees.
- Pheromone is heavier than air; dispensers must be placed in top 75cm of trees for best results.
- Dispensers must be hung before Bio-Fix date for best results.

Approved Pursuant to the HSNO Act 1996, No.HSR008047 See www.ermanz.govt.nz for approval conditions'

available from Skeltons, Horticentre, Farmlands, CRT & Tasman Crop Protection

Gro-Chem HORTICULTURE

Toll Free 0800 447 624 | www.grochem.co.nz