



HALOGEN GREENS



# RESEARCH REPORT 2026

## MRL Analysis: Cucumber

Zero detectable residues confirmed through independent multi-residue testing.

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### Final Certificate of Analysis

**COA Number:** 246984-1  
**COA date:** 23 Mar 2026  
**Supersedes:** None

**Analysed by:** Mérieux NutriSciences Hortec  
 Unit D45, Olive Grove Industrial Estate, Old Paardevlei Rd  
 Somerset West, South Africa Tel no: +27 21 851 1044  
 Email: ZA-DPT-CustomerCare-SSW@mxns.com

### Sample details

<b>Sample No:</b>	246984	<b>Sample type:</b>	Cucumber
<b>Client reference:</b>	Info not Supplied	<b>Cultivar:</b>	Refer to sample reference
<b>Sample Reference:</b>	Daniel	<b>Orchard name:</b>	Info not Supplied
<b>Intake Doc. No:</b>	Info not Supplied	<b>PUC code:</b>	Info not Supplied
<b>Order no:</b>	Info not Supplied	<b>Producer:</b>	Info not Supplied
<b>Date sample received:</b>	18 Mar 2026	<b>Co-op/Pack house:</b>	Info not Supplied
<b>Sample condition:</b>	Good	<b>Sample drawn by:</b>	Info not Supplied
<b>Sample temperature:</b>	24.3°C	<b>Date sample drawn:</b>	16 Mar 2026

### Description of analysis performed

<u>Analysis description</u>	<u>Analysis technique</u>	<u>Date of analysis</u>
GC Multi-residue Pesticide Test	GC/MSMS multi-residue analysis (GC-02)	19 Mar 2026
LC Multi-residue Pesticide Test	LC/MSMS multi-residue analysis (LC-01)	19 Mar 2026

### Summary of results

Analyte	LOQ (mg/kg)	Result (mg/kg)
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No residues were detected above the limit of quantification.



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#### Analytes covered by respective techniques

##### GC/MSMS multi-residue analysis (GC-02)

Analyte	LOQ (mg/kg)	Analyte	LOQ (mg/kg)
2,4'-DDE	0.010	2,4'-DDT	0.010
4,4'-DDE	0.010	4,4'-DDT	0.010
Acrinathrin	0.010	Aldrin	0.010
Azinphos-ethyl	0.010	Bifenthrin	0.010
Bromophos-ethyl	0.010	Bromophos-methyl	0.010
Bromopropylate	0.010	Chlordane	0.010
Chlorfenapyr	0.010	Chlorfenvinphos	0.020
Chlorpyrifos	0.005	Chlorthal-dimethyl	0.010
Coumaphos	0.010	Cyfluthrin	0.020
Cyhalothrin-lambda	0.010	Cypermethrin (sum of isomers)	0.020
Deltamethrin	0.020	Dichlorophene	0.010
Dicofol	0.010	Dieldrin	0.010
Dodemorph	0.010	Endosulfan (a + β)	0.010
Endrin	0.010	Esfenvalerate	0.020
Etaconazole	0.010	Ethion	0.010
Fenitrothion	0.010	Fenvalerate	0.010
Hexachlorobenzene	0.010	Hexazinone	0.010
Parathion	0.010	Parathion-methyl	0.010
Pendimethalin	0.010	Permethrin (sum of isomers)	0.010
Procymidone	0.010	Propyzamide	0.010
Prothiophos	0.010	Pyrethrins	0.010
Quintozene	0.010	Tau-fluvalinate	0.005
Tefluthrin	0.010	Tetradifon	0.010
Tolyfluanid	0.010	Tralkoxidym	0.010
Vinclozolin	0.010		

##### LC/MSMS multi-residue analysis (LC-01)

Analyte	LOQ (mg/kg)	Analyte	LOQ (mg/kg)
Abamectin B1a	0.005	Acephate	0.005
Acetamiprid	0.005	Acetochlor	0.005
Aldicarb	0.005	Aldicarb sulfone	0.005
Aldicarb sulfoxide	0.005	Ametoctradin	0.005
Amitraz	0.005	Azadirachtin	0.005
Azinphos-methyl	0.005	Azoxystrobin	0.005
BAC-10	0.050	BAC-12	0.050
BAC-14	0.050	BAC-16	0.050
BAC-8	0.050	Benthiavalicarb	0.005
Bitertanol	0.005	Boscalid	0.005
Bupirimate	0.005	Buprofezin	0.005
Cadusafos	0.005	Carbaryl	0.005
Carbendazim	0.005	Chlorantraniliprole	0.005
Chlorpyrifos	0.005	Cymoxanil	0.005
Cyprodinil	0.005	Demeton-S-methyl	0.005
Demeton-S-methyl sulfone	0.005	Dichlorvos	0.005
Didecyldimethylammonium chloride	0.050	Difenoconazole	0.005
Dimethoate	0.005	Dimethomorph	0.005
Dinocap	0.005	Diphenylamine	0.005
Dodine	0.005	Emamectin Benzoate	0.005
Ethoprophos	0.005	Etoxazole	0.005
Famoxadone	0.025	Fenamidone	0.005



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Analyte	LOQ (mg/kg)	Analyte	LOQ (mg/kg)
Fenamiphos	0.005	Fenarimol	0.005
Fenazaquin	0.005	Fenbuconazole	0.005
Fenhexamid	0.005	Fenoxycarb	0.005
Fenpropathrin	0.005	Fenpyroximate	0.005
Fenthion	0.005	Fipronil	0.010
Fluazifop-P-Butyl (LC)	0.005	Fludioxonil	0.025
Flufenoxuron	0.005	Fluopicolide	0.005
Fluopyram	0.005	Flusilazole	0.005
Flutriafol	0.005	Forchlorfenuron	0.005
Formetanate	0.005	Fosthiazate	0.005
Hexaconazole	0.005	Imazalil (Chloramizol)	0.005
Imidacloprid	0.005	Indoxacarb	0.005
Iprodione	0.005	Iprovalicarb	0.005
Isofenphos	0.005	Kresoxim-methyl	0.005
Linuron (LC)	0.005	Lufenuron	0.005
Mandipropamid	0.005	Mercaptothion/Malathion	0.005
Metalaxyl	0.005	Methamidophos	0.005
Methidathion	0.005	Methiocarb	0.005
Methomyl	0.005	Methoxyfenozide	0.005
Metrafenone	0.005	Mevinphos	0.005
Monocrotophos	0.005	Myclobutanil	0.005
Novaluron	0.050	Omethoate	0.005
Oxamyl	0.005	Oxydemeton-Methyl	0.005
Paclobutrazol	0.005	Penconazole	0.005
Phenthoate	0.005	Phosmet	0.005
Phoxim	0.005	Piperonyl Butoxide	0.005
Pirimicarb	0.005	Pirimiphos methyl	0.005
Prochloraz	0.005	Profenofos	0.005
Propamocarb	0.005	Propargite	0.005
Propiconazole	0.005	Proquinazid	0.005
Pymetrozin	0.005	Pyraclostrobin	0.005
Pyrimethanil	0.010	Pyriproxyfen	0.005
Quinalphos (LC)	0.005	Quinoxyfen	0.005
Rimsulfuron (LC)	0.005	Spinetoram	0.005
Spinosad	0.005	Spirodiclofen	0.005
Spirotetramat	0.005	Spiroxamine	0.005
Sulfoxaflor	0.005	Tau-fluvalinate	0.005
Tebuconazole	0.005	Teflubenzuron	0.005
Terbufos	0.005	Tetraconazole	0.005
Thiabendazole	0.005	Thiacloprid	0.005
Thiamethoxam	0.005	Thidiazuron	0.005
Triadimenol	0.005	Triazophos	0.005
Trichlorfon	0.005	Trifloxystrobin	0.005
Triflumuron	0.005	Zoxamide	0.005

No MRL means no MRL has been defined for this active in the relevant jurisdiction.  
 LOQ means limit of quantification.



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#### Declaration

- Analysis methods marked with an asterisk (\*) are not covered under the laboratory's scope of accreditation.
- The sample information referred to in this report were provided to us by our client and have not been verified by Hortec.
- The results reported herein relate only to the sample tested. Hortec cannot and does not confirm that the sample is representative of the population from which it was drawn.
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- Further information about analytical methods used, LOQs and MRLs is available on request from Hortec.

#### Report authorised for release by

Lourika Fraser  
Technical Signatory  
Hortec (Pty) Ltd

Date: 23 March 2026

# TOUCH BASE WITH US

## ● Head Office

- Roodepoort - Gauteng

## ● Manufacturing Plants

- Tarlton - Gauteng
- Citrusdal - Western Cape

## ● Depots

- George - Western Cape
- Groblersdal - Limpopo
- Nelspruit - Mpumalanga
- Kirkwood - Eastern Cape
- Polokwane - Limpopo



# CORPORATE IDENTITY



**HALOGEN GREENS**

ELEVATING CROP PROTECTION, NATURALLY

## SPECIALIZATION

Group 3 Bio Stimulant  
(Trials Underway for Registration)

## STATUS

- Pending Worldwide Patent
- Conducting Trials



# CONTACT INFORMATION



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- Tarlton, Gauteng, South Africa
- Citrusdal, Western Cape, South Africa
- Fredericton, New Brunswick, Canada

