



## CERTIFICATE OF ANALYSIS

Name	<b>VECTRA 3D DOG 25-40 KG</b>	Batch N°	<b>1747900</b>
Presentation	<b>3P</b>	Manufacturing date	<b>12-SEP-2014</b>
Code list	<b>C66140A</b>	Expiry date	<b>12-AUG-2017</b>

Tests	Specifications	Results
<b>CHARACTERS</b>		
Appearance :	Pale yellow solution	COMPLIES
Relative density :	1.050 - 1.150	1.102
<b>IDENTIFICATIONS</b>		
Permethrin : (by HPLC/UV diode array)	Rt of test substance concordant with the Rt of reference substance and UV spectra superimposable	COMPLIES
Pyriproxyfen : (by HPLC/UV diode array)	Rt of test substance concordant with the Rt of reference substance and UV spectra superimposable	COMPLIES
Dinotefuran : (by HPLC/UV diode array)	Rt of test substance concordant with the Rt of reference substance and UV spectra superimposable	COMPLIES
<b>TESTS</b>		
Clarity :	Clear solution	COMPLIES
Degree of coloration :	$\leq Y2$	COMPLIES
Water content (KF):	$\leq 3.0$ %	0.1
Uniformity of dosage units :	Complies to Ph.Eur. 2.9.40	COMPLIES
Average delivered mass per pipette (mg) :	4912 - 5429 mg	5122
<b>ASSAYS</b>		
Permethrin content (mg/pipette) :	1772.07 - 1958.60 mg/pipette	1831.68

This batch has been tested in reference to the dossier in force and has been found to meet the specification requirements

**COMPLIES / NOT COMPLIES**

Checked by : **Marine BREPSON**

Batch Release number **362438**

Batch Release date **19-DEC-2014**

**ACCEPTED by**

**Stéphanie ZEBST**  
Quality Assurance Manager

The undersigned certifies this is a true copy of the results of tests and assays.



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Tests	Specifications	Results
<b>ASSAYS</b>		
Permethrin content (%w/w) :	34.28 - 37.88 g %g	35.76
Trans-permethrin (%) :	55.0 - 65.0 %	58.8
Cis-permethrin (%) :	35.0 - 45.0 %	41.2
Pyriproxifen content (mg/pipette) :	21.61 - 23.89 mg/pipette	22.44
Pyriproxifen content (%w/w) :	0.418 - 0.462 g %g	0.438
Dinotefuran content (mg/pipette) :	243.12 - 268.71 mg/pipette	250.47
Dinotefuran content (%w/w) :	4.70 - 5.20 g %g	4.89
<b>DEGRADATION PRODUCTS (HPLC)</b>		
<b>- DEGRADATION PRODUCTS OF PERMETHRIN (%) :</b>		
3-Phenoxybenzyl alcohol (Imp.A)	<=1.0	0.0
3-Phenoxybenzaldehyde (Imp.B)	<=1.0	0.0
Single known (each <=1.0%)		ND
Total	<=4.0	0.0
<b>- DEGRADATION PRODUCTS OF PYRIPROXYFEN (%) :</b>		
Unknown (each)	<=1.0	0.0
Total	<=3.0	0.0

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Code list **C66140A** Manufacturing date **12-SEP-2014**  
Expiry date **12-AUG-2017**

Tests	Specifications	Results
<b>ASSAYS</b>		
<b>- DEGRADATION PRODUCTS OF DINOTEFURAN (%) :</b>		
Any impurity (each)	<=1.0	0.0
Total	<=3.0	0.0
<b>MICROBIAL QUALITY</b>		
Microbial contamination :		
Total viable aerobic count :	<=100 UFC/ml	0
Total combined Yeasts/ Moulds count	<=10 UFC/ml	0
Pseudomonas aeruginosa :	Absence in 1 ml	COMPLIES
Staphylococcus aureus :	Absence in 1 ml	COMPLIES

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