



## CERTIFICATE OF ANALYSIS

Name **VECTRA 3D DOG 25-40 KG** Batch N° **1749700**  
Presentation **3P**  
Code list **C66140A** Manufacturing date **10-SEP-2014**  
Expiry date **10-AUG-2017**

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	5147
<b>ASSAYS</b>		
Permethrin content (mg/pipette) :	1772.07 - 1958.60 mg/pipette	1839.49

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 363659

Batch Release date **27-JAN-2015**

**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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Code list	<b>C66140A</b>	Expiry date	10-AUG-2017

Tests	Specifications	Results
<b>ASSAYS</b>		
Permethrin content (%w/w) :	34.28 - 37.88 g %g	35.74
Trans-permethrin (%) :	55.0 - 65.0 %	57.8
Cis-permethrin (%) :	35.0 - 45.0 %	42.2
Pyriproxifen content (mg/pipette) :	21.61 - 23.89 mg/pipette	22.54
Pyriproxifen content (%w/w) :	0.418 - 0.462 g %g	0.438
Dinotefuran content (mg/pipette) :	243.12 - 268.71 mg/pipette	254.26
Dinotefuran content (%w/w) :	4.70 - 5.20 g %g	4.94
<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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<b>ASSAYS</b>		
- DEGRADATION PRODUCTS OF DINOTEFURAN (%) :		
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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