



CERTIFICATE OF ANALYSIS

Name **VECTRA 3D DOG 25-40 KG** Batch N° **1757100**
Presentation **3P**
Code list **C66140A** Manufacturing date **12-SEP-2014**
Expiry date **12-AUG-2017**

Tests	Specifications	Results
CHARACTERS		
Appearance :	Pale yellow solution	COMPLIES
Relative density :	1.050 - 1.150	1.102
IDENTIFICATIONS		
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
TESTS		
Clarity :	Clear solution	COMPLIES
Degree of coloration :	<=Y2	COMPLIES
Water content (KF):	<=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
ASSAYS		
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 : **Maureen MAYENC**

Batch Release number **361507**

Batch Release date **1-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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ASSAYS		
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
DEGRADATION PRODUCTS (HPLC)		
- DEGRADATION PRODUCTS OF PERMETHRIN (%) :		
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
- DEGRADATION PRODUCTS OF PYRIPROXYFEN (%) :		
Unknown (each)	≤1.0	0.0
Total	≤3.0	0.0

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ASSAYS		
- DEGRADATION PRODUCTS OF DINOTEFURAN (%) :		
Any impurity (each)	≤1.0	0.0
Total	≤3.0	0.0
MICROBIAL QUALITY		
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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PS/MP 0402/20