



CERTIFICATE OF ANALYSIS

Name	VECTRA 3D DOG +40 KG	Batch N°	1748300
Presentation	3P	Manufacturing date	12-SEP-2014
Code list	C66150A	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 :	$\leq Y2$	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) :	8360 - 9240 mg	8770
ASSAYS		
Permethrin content (mg/pipette) :	3016.29 - 3333.79 mg/pipette	3136.00

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 363073

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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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) :	36.78 - 40.66 mg/pipette	38.41
Pyriproxifen content (%w/w) :	0.418 - 0.462 g %g	0.438
Dinotefuran content (mg/pipette) :	413.82 - 457.38 mg/pipette	428.83
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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