

Client: Vaughter Wellness Ltd
Job No.: 128351

Reference: European Pharmacopoeia 7
Monograph: Lufenuron (Anhydrous) for Veterinary Use
Sample ID: 50 Gram Lufenuron Sent by Courier

<u>Analysis</u>	<u>Specification</u>	<u>Result</u>	<u>Pass/Fail</u>
Loss on Drying (2.2.32)	NMT 0.5 %	0.1 %	Pass
Sulfated Ash (2.4.14)	NMT 0.1 %	< 0.01 %	Pass

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<u>Analysis</u>	<u>Specification</u>	<u>Result</u>	<u>Pass/Fail</u>
Identification Infrared Absorption (2.2.24)	Conforms to reference standard.	Conformed to reference standard.	Pass

Date Analyzed: 02-16-11

Quality Control Summary

Sample ID: 1.5 mil Polystyrene SN: ADP 6131
Analysis: Infrared Absorption (2.2.24)

<u>Transmission minima (cm⁻¹)</u>	<u>Acceptable tolerance for FT-IR (cm⁻¹)</u>	<u>Result</u>	<u>Pass/Fail</u>
3060.0	± 1.0	3059.4	Pass
2849.5	± 1.0	2849.0	Pass
1942.9	± 1.0	1942.5	Pass
1601.2	± 1.0	1601.0	Pass
1583.0	± 1.0	1589.2	Pass
1154.5	± 1.0	1154.4	Pass
1028.3	± 1.0	1028.3	Pass
<u>Resolution performance</u>			
Abs @ 2849.5 – Abs @ 2870 cm ⁻¹	> 0.33	0.41	Pass
Abs @ 1583 – Abs @ 1589 cm ⁻¹	> 0.08	0.12	Pass

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Assay (2.2.29)	98.0% - 102.0%	98.1% 98.8% Duplicate	Pass
Related Substances (2.2.29)	Impurity C: NMT 4 times the area of the principal peak in the chromatogram obtained with reference solution (a) (0.4 per cent);	NMT 0.4%	Pass
	Impurity B: NMT 3 times the area of the principal peak in the chromatogram obtained with reference solution (a) (0.3 per cent);	NMT 0.3%	Pass
	Unspecified impurities: for each impurity, NMT twice the area of the principal peak in the chromatogram obtained with reference solution (a) (0.20 per cent);	NMT 0.20%	Pass
	Total: NMT 10 times the area of the principal peak in the chromatogram obtained with reference solution (a) (1.0 per cent).	NMT 1.0%	Pass

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Heavy Metals (2.4.8) B	NMT 20 ppm	NMT 20 ppm	Pass