

**TASMANS NATURAL PET  
KEN LUDWICK  
903 GEIGER ST  
LOUISVILLE KY 40206**

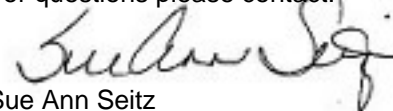
**REPORT OF ANALYSIS**

For: (31317) TASMANS NATURAL PET  
WILD BOAR HIDE ANALYSIS  
WILDBOAR\_GA  
DRY PET FOOD

Analysis	Level Found			Reporting		Analyst- Date	Verified- Date
	As Received	Dry Weight	Units	Limit	Method		
Sample ID: <b>WBT005</b> Lab Number: <b>12647488</b> Date Sampled: <b>2016-05-25</b>							
Moisture (vacuum oven - 70°C)	13.18	//////	%	0.01	AOAC 969.35 *	ddd1-2016/06/03	cde2-2016/06/06
Dry matter	86.82	//////	%	0.010	Calculation *	Auto-2016/06/09	Auto-2016/06/09
Protein (crude)	86.4	99.5	%	0.20	AOAC 990.03 *	cde2-2016/06/06	cde2-2016/06/06
Fat (acid hydrolysis)	3.50	4.03	%	0.10	AOAC 954.02 (mod) *	cde2-2016/06/06	cde2-2016/06/06
Fiber (crude)	n.d.	n.d.	%	0.20	AOCS Ba 6a-05 *	sdh7-2016/06/01	cde2-2016/06/06
Ash	3.20	3.68	%	0.10	AOAC 942.05 *	vrn7-2016/06/06	cde2-2016/06/06
Collagen	69.2		%	0.01	Calculation *	tjp8-2016/06/09	tjp8-2016/06/09
Total calories	4.2	4.8	kcal/g	1.0	ASTM D 5865-13 *	ddd1-2016/06/02	cde2-2016/06/06
Hydroxyproline	8.65		%	0.01	AOAC 994.12 (Alt. III) *	tjp8-2016/06/09	tjp8-2016/06/09

n.d. = not detected

For questions please contact:



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The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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**Detailed Method Description(s)****Vacuum Moisture**

Analysis follows FO 02 or FD 018, both of which are based on AOAC 969.35. Samples are placed in pre-weighed tins and then placed in an oven that can attain a vacuum. The oven is set at 70°C under vacuum for 4 hours. Dried samples are re-weighed and the loss in weight is reported as moisture.

**Calculation**

Analytical results are entered into applicable formulas to provide a calculated result which is reported.

**Calories/BTU**

Analysis follows MWL FD 072 which follows ASTM D 5865-13. Samples are weighed and put in a pressurized oxygen bomb and ignition via electrical current. Temperature change in surrounding water can be calculated into BTU and Calories.

**Protein (Crude)**

Analysis follows MWL FD 070 which is based on AOAC 990.03. The sample is placed in a combustion instrument and the amount of nitrogen is obtained. The nitrogen value is multiplied by a factor of 6.25 and that value reported as crude protein.

**AOAC 994.12 (Alt. III) total amino acids-hydrolysis**

A small amount of a homogenous sample is digested using a combination of heat and hydrochloric acid to break down the peptide bonds between the amino acids. The extract is treated to clean it up and then an aliquot is injected into the HPLC using a post-column derivatization apparatus and ninhydrin as the chromophore. This method cannot determine tryptophan. The amino acids cystine and methionine must undergo special treatment before they can be analyzed by this procedure.

**Acid Hydrolysis Fat**

Analysis follows FD 027 which is based on AOAC 954.02. A sample is treated with ethanol and hydrochloric acid to help release fat in the sample. Separate treatments of ethyl ether and petroleum ether is used to extract the fat and the ethers collected in a pre-weighed beaker. The ether is evaporated and dried at 70 degrees C to remove remaining ether and moisture and the material remaining in the beaker is reported as "fat".

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REPORT NUMBER

**16-161-9010**

REPORT DATE  
**Jun 09, 2016**

SEND TO  
**31317**

RECEIVED DATE  
**May 31, 2016**



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**Crude Fiber**

Analysis follows MWL FD 039 which is based on AOCS Ba 6a-05. A small amount of sample is weighed and placed in a membrane bag and sealed. The bag and sample are placed in a container that treats the sample with a variety of chemicals to dissolve materials which leach out of the bag. After repeated washing and rinsing, the bag is dried and reweighed. The material remaining in the bag is reported as crude fiber

**Ash**

Analysis follows MWL FD 019 which is based on AOAC 942.05. The sample is weighed and placed in a muffle furnace at 600°C. After a period of time, the sample is removed and the remaining material weighed and reported as ash. Moisture and organic material is driven off.

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