

MULLIGAN STEW PET FOOD  
 ATTN: STEVE MANLEY  
 PO BOX 7396  
 JACKSON, WY 83002

Reporting Date 05/27/2010



AR-10-QA-007814-01

## REPORT OF ANALYSIS

<b>Sample Code</b>	468-2010-0514B113	<b>Reception Date</b>	05/14/2010
<b>Description</b>	DRY PET FOOD	<b>Purchase Order</b>	
<b>Client Sample Code</b>	PREMIUM BAKED KIBBLE CHICKEN RECIPE		
<b>Reference</b>	BEST BUY DATE: 11-11-11		

Test Results	As-Is Basis	Result	LOQ
<b>QA354 - Moisture (Air Oven - Oilseed Meals)</b>			
<b>Completion Date:</b> 05/21/2010 <b>Method:</b> AOCS Ba 2a-38			
Moisture and Volatile Matter	6.53 %		0.05
<b>QA822 - Crude Protein (SB, SBM: Combustion)</b>			
<b>Completion Date:</b> 05/17/2010 <b>Method:</b> AOCS Ba 4e-93			
Protein	26.29 %		0.50
<b>QA134 - Ash</b>			
<b>Completion Date:</b> 05/17/2010 <b>Method:</b> AOCS Ba 5a-49			
Ash	5.8 %		0.1
<b>QA265 - Fat (Acid Hydrolysis - Dry Foods)</b>			
<b>Completion Date:</b> 05/20/2010 <b>Method:</b> AOAC 922.06			
AH Fat	14.88 %		0.10
<b>QA285 - Crude Fiber (AOCS)</b>			
<b>Completion Date:</b> 05/17/2010 <b>Method:</b> AOCS Ba 6-84			
Crude Fiber	5.4 %		0.2
<b>QA102 - Aflatoxin, total (ELISA, 1-10 ppb)</b>			
<b>Completion Date:</b> 05/17/2010 <b>Method:</b> Neogen Veratox HS			
Aflatoxins total	<1 µg/kg		1.00
<b>QA300 - Fumonisin, total (ELISA)</b>			
<b>Completion Date:</b> 05/17/2010 <b>Method:</b> Neogen Veratox			
Fumonisin	<0.2 mg/kg		0.20
<b>QA403 - Ochratoxin, total (ELISA)</b>			
<b>Completion Date:</b> 05/17/2010 <b>Method:</b> Neogen Veratox			
Ochratoxin	<1 µg/kg		1.0

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<b>QA906 - T-2 Toxin (ELISA)</b> Completion Date: 05/17/2010 Method: Neogen T-2 Toxin	13 µg/kg		10
<b>QAA08 - Vomitoxin (DON) ELISA</b> Completion Date: 05/17/2010 Method: Neogen Veratox Vomitoxin (Deoxynivalenol)	0.110 mg/kg		0.100
<b>QAA20 - Zearalenone (ELISA)</b> Completion Date: 05/17/2010 Method: Neogen Veratox Zearalenone	120 µg/kg		10
<b>QA00P - Calcium NLEA</b> Completion Date: 05/21/2010 Method: AOAC 986.15 mod. Calcium (Ca)	1,090 mg/100 g	1.09 %	1.00
<b>QA007 - Copper (ICP-AES)</b> Completion Date: 05/21/2010 Method: J.AOAC 92, 1484-1518 (2009) Copper (Cu)	10 mg/kg	0.0 %	0.2
<b>QA015 - Iron (ICP-AES)</b> Completion Date: 05/21/2010 Method: J.AOAC 92, 1484-1518 (2009) Iron (Fe)	120 mg/kg	0.0 %	0.5
<b>QA002 - Magnesium (ICP-AES)</b> Completion Date: 05/21/2010 Method: J.AOAC 92, 1484-1518 (2009) Magnesium (Mg)	1,600 mg/kg	0.16 %	5.0
<b>QA003 - Manganese (ICP-AES)</b> Completion Date: 05/21/2010 Method: J.AOAC 92, 1484-1518 (2009) Manganese (Mn)	33.8 mg/kg	0.00338 %	0.200
<b>QA00D - Phosphorus (ICP-AES)</b> Completion Date: 05/21/2010 Method: J.AOAC 92, 1484-1518 (2009) Phosphorus (P)	9,230 mg/kg	0.923 %	10.0
<b>QA004 - Potassium (ICP-AES)</b> Completion Date: 05/21/2010 Method: J.AOAC 92, 1484-1518 (2009) Potassium (K)	6,470 mg/kg	0.647 %	5.00
<b>QA005 - Selenium in Food ICP-MS</b> Completion Date: 05/20/2010 Method: AOAC 986.15 mod. Selenium (Se)	1.2 mg/kg		0.02
<b>QA00Q - Sodium NLEA</b> Completion Date: 05/21/2010 Method: AOAC 986.15 mod. Sodium (Na)	299 mg/100 g	0.299 %	6.00

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<b>QA848 - Sulfur (ICP-AES)</b>			
<b>Completion Date:</b> 05/21/2010	<b>Method:</b> J.AOAC 92, 1484-1518 (2009)		
Sulfur	4,300 mg/kg	0.43 %	10
<b>QA006 - Zinc (ICP-AES)</b>			
<b>Completion Date:</b> 05/21/2010	<b>Method:</b> J.AOAC 92, 1484-1518 (2009)		
Zinc (Zn)	190 mg/kg	0.019 %	1.0
<b>QA213 - Chloride USP</b>			
<b>Completion Date:</b> 05/19/2010	<b>Method:</b> USP/NF 221		
Chloride	<0.001 %		0.00100
<b>QQ141 - Tryptophan - AOAC</b>			
<b>Completion Date:</b> 05/26/2010	<b>Method:</b> AOAC 988.15		
Tryptophan		0.28 %	0.01
<b>QQ085 - Niacin (AOAC mod., &lt;100 mg/100g)</b>			
<b>Completion Date:</b> 05/26/2010	<b>Method:</b> AOAC 944.13		
Niacin	8.63 mg/100 g		0.220
<b>QQ182 - Total Vitamin A</b>			
<b>Completion Date:</b> 05/26/2010	<b>Method:</b> AOAC 974.29 Mod.		
Retinol	656 IU/100 g		44.0
β-carotene	3,010 IU/100 g		44.0
Total Vitamin A	3,670 IU/100 g		44.0
<b>QQ149 - Vitamin B1 (Thiamine)(AOAC mod., &lt;25 mg/100g)</b>			
<b>Completion Date:</b> 05/26/2010	<b>Method:</b> AOAC 942.23		
Vitamin B1 - Thiamine Hydrochloride	0.548 mg/100 g		0.0110
<b>QQ151 - Vitamin B12 - Cyanocobalamin (AOAC, levels &lt; 5 mg/100g)</b>			
<b>Completion Date:</b> 05/26/2010	<b>Method:</b> AOAC 952.20 / 45.2.02		
Vitamin B12	6.55 µg/100 g		0.440
<b>QQ154 - Vitamin B2 - Riboflavin (AOAC, levels &lt; 25 mg/100g)</b>			
<b>Completion Date:</b> 05/26/2010	<b>Method:</b> AOAC 970.65		
Vitamin B2 (riboflavin)	0.830 mg/100 g		0.0110
<b>QQ156 - Vitamin B5 - Pantothenic Acid (AOAC mod., food, &lt; 75 mg/100g)</b>			
<b>Completion Date:</b> 05/26/2010	<b>Method:</b> AOAC 945.74		
Pantothenic acid	1.63 mg/100 g		0.0550
<b>QQ163 - Vitamin E by HPLC - AOAC</b>			
<b>Completion Date:</b> 05/26/2010	<b>Method:</b> AOAC 971.30 with HPLC quantification mod.		
Total Vitamin E (Tocopherols)	16.1 IU/100 g		0.100

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<b>QQ176 - Amino Acids - AOAC Acid Hydrolysis Extraction</b>			
Completion Date: 05/26/2010 Method: AOAC 982.30 mod.			
Alanine	1.56 %		0.01
Arginine	1.79 %		0.01
Aspartic Acid	2.28 %		0.01
Glutamic Acid	3.79 %		0.01
Glycine	1.87 %		0.01
Histidine	0.59 %		0.01
Isoleucine	1.00 %		0.01
Leucine	1.94 %		0.01
Phenylalanine	1.08 %		0.01
Proline	1.41 %		0.01
Serine	1.16 %		0.01
Threonine	1.00 %		0.01
Total Lysine	1.30 %		0.01
Tyrosine	0.73 %		0.01
Valine	1.28 %		0.01
<b>QQ177 - Cystine &amp; Methionine - AOAC</b>			
Completion Date: 05/26/2010 Method: AOAC 994.12 mod.			
Cystine	0.37 %		0.01
Methionine	0.70 %		0.01
<b>QA171 - Linoleic (C18:2) by IS</b>			
Completion Date: 05/20/2010 Method: AOCS Ce 1b-89			
C 18:2 (Linoleic acid)	34.12 %		1.00
<b>QA851 - Salmonella spp.(PCR)</b>			
Completion Date: 05/21/2010 Method: AOAC 2003.09			
Salmonella	Negative /25 g		
<b>QD404 - Iodine</b>			
Completion Date: 05/25/2010 Method: AOAC 932.21			
Iodine	6.16 ppm		
<b>QD625 - Total Choline</b>			
Completion Date: 05/25/2010 Method:			
Total Choline	189.00 mg/100 g		4.00
<b>QD743 - Vitamin D</b>			
Completion Date: 05/26/2010 Method: prEN 128:2007 (Feb) (Mod)			
Vitamin D3	334 IU/100 g		25.0
<b>QQ059 - Folic Acid, Total (AOAC, levels &lt; 12.5 mg/100g)</b>			
Completion Date: 05/26/2010 Method: J. AOAC, Volume 73, No.5, 1990 mod			
Folic Acid, Total	0.169 mg/100 g		3.30

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**Test Results**

**As-Is Basis**

**Result**

**LOQ**

Respectfully Submitted,  
Eurofins Central Analytical Laboratories



John Reuther, President

Results shown in this report relate solely to the item submitted for analysis.  
Uncertainty can be obtained upon request.