# Organic Application Note

## **Moisture and Ash in Animal Feeds**

#### **Sample Preparation**

Animal feed samples may be analyzed as received. Moisture and ash may be determined simultaneously on the same sample using the TGA-601.

Steps Information	Moisture	Ash
Covers:	Off	Off
Ramp Rate:	8	9
Ramp Time (h:m):	00:13	01:19
Hold Time (h:m):	00:25	00:50
S. Temp (°C):	25	135
E. Temp (°C):	135	850
Atmosphere:	Air	Air
Flow Rate:	High	Low



#### **Equations**

Moisture: ((W[Initial]-W[Moisture])/W[Initial])\*100

Ash: (W[Ash]/W[Initial])\*100

Initial Weight: W[Initial]

#### **Procedure**

Weigh up to 19 samples, 1 to 2 g each, directly into crucibles. Select the appropriate method and analyze.

### **Analysis Time** ~3.5 hours

### **Typical Results**

TGA-601 Results			CEM Values		
Sample	Moisture	Ash	Sample	Moisture	Ash
Feather Meal #1	7.858	1.521	Feather Meal #1	7.9	1.37
	7.831	1.535			
Feather Meal #2	8.955	1.408	Feather Meal #2	9.2	1.36
	9.055	1.336			
Poultry Meal/Low Ash #1	4.061	9.453	Poultry Meal/Low Ash #1	4.3	9.7
	4.043	9.709	, ,		
Poultry Meal/Low Ash #2	3.939	9.419	Poultry Meal/Low Ash #2	4.3	9.7
	3.923	9.415	, ,		
Poultry Meal/Regular #1	4.772	10.14	Poultry Meal/Regular #1	5.0	10.0
	4.794	10.16	, seem, seegerar a		
Poultry Meal/Regular #2	6.516	11.38	Poultry Meal/Regular #2	6.7	11.53
	6.519	11.05	. com, modi, negotar " z	· · ·	



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TGA-601

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