

**Charm**  
**EZ<sup>®</sup>-M**

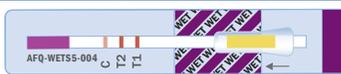


## Charm<sup>®</sup> ROSA<sup>®</sup> Lateral Flow Mycotoxin Tests

**Rapid Mycotoxin Testing in Feed & Grain**

**CHARM**  
SCIENCES INC  
NOTHING WORKS LIKE A CHARM

# ROSA Mycotoxin Family Brochure

Extraction Solvent		Incubation Time	Approval	Commodities			
<b>FAST Aflatoxin Quantitative Test</b>				<b>Quantitation Ranges:</b> 5 to 30 ppb, 20 to 100 ppb, 50 to 300 ppb			
							
70% Methanol	3 Min	FGIS <sup>†</sup>	Corn				
70% Methanol	5 Min	FGIS <sup>†</sup>	Barley Brown Rice Corn Germ Meal Corn Gluten Meal (Corn Protein Meal) Corn/Soy Blend	DDG DDGS Hominy Millet Oat Groats Oats	Popcorn Rough Rice Rye Sorghum Soybean Hulls Soybean Meal	Soybeans Wheat Yellow Pea Flour	
		Charm <sup>‡</sup>	Baby Wheat Barley/Oat Groats Blend Beet Pulp Chia Seeds Chickpeas Clear Jel Corn Bran	Corn Pregel Corn Starch Flax Seed Ginger Root Green Lentils Green Pea Flour High Amylose Corn Starch	High Starch Sweet Potato Milled Rice Oatmeal Parboiled Rice Pea Fiber Pearled Barley Precooked Corn Meal	Quinoa Rice Hulls Rice Starch Soybean Mill Run Sweet Potato Tapioca Starch	
84% Acetonitrile	5 Min	Charm <sup>‡</sup>	Activebiome Fibers Copra Meal Corn Gluten Feed Corn Silage Cottonseed Hulls Cottonseed Meal	Green Peas/Yellow Peas M-fiber Oat Bran Palm Kernel Meal Peanut Hulls Peanut Meal	Pregelatinized Rice Starch Rice Bran Rice Protein Concentrate Soy Protein Hydrolysate Stabilized Rice Bran Sunflower Seeds	Wheat Bran Wheat Midds Whole Cottonseed Whole Cottonseed (delinted) Yeast	
21% Acetonitrile: 52.5% Methanol	5 Min	Charm <sup>‡</sup>	Oat Fiber	Oat Fiber, Fruit, and Vegetable Blend	Soy Protein Isolate		
<b>WET-S3 Aflatoxin Quantitative Test</b>				<b>Quantitation Ranges:</b> 5 to 100 ppb, 50 to 300 ppb			
							
Water Extraction Technology	3 Min	FGIS <sup>†</sup>	Corn				
<b>WET-S5 Aflatoxin Quantitative Test</b>				<b>Quantitation Ranges:</b> 5 to 100 ppb, 50 to 300 ppb			
							
Water Extraction Technology	5 Min	FGIS <sup>†</sup>	Barley Brown Rice Corn	DDG DDGS Hominy	Sorghum Soybeans Wheat		
		Charm <sup>‡</sup>	Corn Gluten Meal (Corn Protein Meal)	Malted Barley Millet	Pearled Barley Rice Bran	Soybean Meal	
<b>FAST5 DON Quantitative Test</b>				<b>Quantitation Ranges:</b> 0.5 to 1.5 ppm, 1 to 5.4 ppm, > 5 ppm			
							
Deionized or Distilled Water	5 Min	Charm <sup>‡</sup>	Barley Beet Pulp Brewer's Rice Brown Rice Buckwheat Chickpeas Clear Jel Corn Corn Bran Corn Germ Meal Corn Gluten Feed Corn Gluten Meal (Corn Protein Meal) Corn Starch DDGS	Ginger Root Green Lentils Green Pea Flour High Amylose Corn Starch High Starch Sweet Potato Hominy Malted Barley M-fiber Milled Rice Millet Oat Fiber Oat Fiber, Fruit, and Vegetable Blend Oat Groats Oatmeal	Oats Palm Kernel Meal Parboiled Rice Pea Fiber Pearled Barley Quinoa Rapeseed Meal Rice Bran Rice Bran (defatted) Rice Starch Rough Rice Rye Sorghum Soy Protein Hydrolysate Soybean Hulls	Soybean Meal Soybean Mill Run Soybeans Stabilized Rice Bran Sweet Potato Tapioca Starch Triticale Wheat Wheat Bran Wheat Flour Wheat Germ Wheat Midds Wheat Red Dog Wheat Screenings Yellow Pea Flour	
<b>DONQ2 Quantitative Test</b>				<b>Quantitation Ranges:</b> 0.5 to 5.4 ppm, 4 to 30 ppm			
							
Deionized or Distilled Water	2 Min	FGIS <sup>†</sup>	Barley Brown Rice Buckwheat Corn Corn Bran Corn Germ Meal	Corn Gluten Feed Corn Gluten Meal (Corn Protein Meal) DDGS Hominy Malted Barley	Milled Rice Oats Popcorn Rice Bran Rough Rice Rye	Sorghum Soybean Meal Soybeans Triticale Wheat Wheat Bran	
		Charm <sup>‡</sup>	Beet Pulp Corn Starch	Palm Kernel Meal Pearled Barley	Rapeseed Meal Yeast		

Extraction Solvent		Incubation Time	Approval	Commodities		
<b>WET-S5 DON Quantitative Test</b>				<b>Quantitation Ranges:</b> 0.5 to 5.4 ppm, 4 to 30 ppm		
Water Extraction Technology		5 Min	Charm <sup>‡</sup>	Barley	Corn	Wheat
<b>FAST5 Fumonisin Quantitative Test</b>				<b>Quantitation Ranges:</b> 0.5 to 1.5 ppm, 1 to 5.4 ppm, 5 to 25 ppm		
70% Methanol	5 Min	Charm <sup>‡</sup>	Activebiome Fibers Barley Barley/Oat Groats Blend Beet Pulp Brown Rice Clear Jel Corn Corn Germ Meal	Corn Gluten Feed Corn Starch DDGS Flaking Corn Grits Ginger Root Green Lentils High Amylose Corn Starch High Starch Sweet Potato	M-fiber Millet Oat Fiber Oat Fiber, Fruit, and Vegetable Blend Oat Groats Oats Precooked Corn Meal	Rough Rice Sorghum Soybean Meal Sweet Potato Wheat Yeast
25% Acetonitrile: 25% Methanol	5 Min	Charm <sup>‡</sup>	Brewer's Rice Parboiled Rice	Rice Bran (defatted) Stabilized Rice Bran	Wheat Midds	
70% Methanol	5 Min	Substantiated <sup>‡</sup>	Corn Gluten Meal (Corn Protein Meal)	Corn Protein Concentrate		
<b>FAST5-X Fumonisin Quantitative Test</b>				<b>Quantitation Ranges:</b> 2 to 15 ppm		
70% Methanol	5 Min	Charm <sup>‡</sup>	Barley	Brown Rice	Corn	Wheat
70% Methanol	5 Min	Substantiated <sup>‡</sup>	Corn Gluten Meal (Corn Protein Meal)			
<b>WET-S5 Fumonisin Quantitative Test</b>				<b>Quantitation Ranges:</b> 0.5 to 5.4 ppm, 4 to 40 ppm, > 40 ppm (Corn Only)		
Water Extraction Technology	5 Min	FGIS <sup>‡</sup>	Corn Corn Germ Meal	DDGS Oats	Popcorn Sorghum	Wheat
		Charm <sup>‡</sup>	Barley	Corn Gluten Feed	Millet	Rough Rice
<b>Ochratoxin Quantitative Test (Ochratoxin A)</b>				<b>Quantitation Ranges:</b> 5 to 30 ppb, 20 to 100 ppb		
70% Methanol	10 Min	FGIS <sup>‡</sup>	Barley Buckwheat Corn	Corn Gluten Meal (Corn Protein Meal) Malted Barley	Oat Groats Rye Sorghum	Soybean Meal Soybeans Wheat
		Charm <sup>‡</sup>	Baby Wheat Barley/Oat Groats Blend Beet Pulp Black Beans Brewer's Rice Brown Rice Chickpeas Corn Pregel	DDG Ginger Root Green Lentils Green Pea Flour High Starch Sweet Potato M-fiber Millet Navy Beans	Oat Fiber Oat Fiber, Fruit, and Vegetable Blend Oats Parboiled Rice Pea Fiber Pinto Beans Quinoa	Red Kidney Beans Rice Rice Protein Concentrate Sweet Potato Wheat Bran Yellow Pea Flour
60% Acetonitrile	10 Min	Charm <sup>‡</sup>	Flax Seed	Oat Bran	Rice Bran (defatted)	Soybean Mill Run
<b>T2/HT2 Quantitative Test</b>				<b>Quantitation Ranges:</b> 25 to 200 ppb, 100 to 2000 ppb		
70% Methanol	10 Min	Charm <sup>‡</sup>	Baby Wheat Barley Beet Pulp Brewer's Rice Brown Rice Chickpeas Corn Corn Gluten Meal (Corn Protein Meal)	Corn Pregel Corn Starch DDG Flax Seed Green Lentils Green Pea Flour High Amylose Corn Starch Lentil Fibers Millet	Oat Bran Oat Groats Pea Fiber Rice Protein Concentrate Rice Starch Sorghum Soy Protein Hydrolysate Soy Protein Isolate Soybean Meal	Soybean Mill Run Wheat Wheat Flour Yellow Pea Flour
84% Acetonitrile	10 Min	Charm <sup>‡</sup>	Wheat Midds			

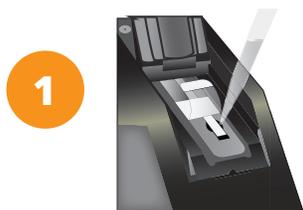
Extraction Solvent	Incubation Time	Approval	Commodities			
<b>FAST5 Zearalenone Quantitative Test</b>			<b>Quantitation Ranges:</b> 50 to 350 ppb, 300 to 1000 ppb 100 to 400 ppb, 250 to 1500 ppb, and 500 to 3000 ppb for Corn Gluten Meal (Corn Protein Meal)			
70% Methanol	5 Min	Charm†	Baby Wheat Barley Barley/Oat Groats Blend Beet Pulp Brewer's Rice Brown Rice Chickpeas Corn Corn Gluten Meal (Corn Protein Meal) Corn Protein Concentrate Corn Starch	DDGS Flaking Corn Grits Ginger Root Green Lentils Green Pea Flour High Amylose Corn Starch High Starch Sweet Potato Lentil Fibers M-fiber Milled Rice Millet Oat Bran	Oat Fiber Oat Fiber, Fruit, and Vegetable Blend Oat Groats Oats Parboiled Rice Pea Fiber Popcorn Rice Rice Bran (defatted) Rice Starch Rough Rice	Rye Sorghum Soybean Meal Soybean Mill Run Soy Protein Hydrolysate Sweet Potato Wheat Wheat Bran Wheat Flour Yellow Pea Flour
84% Acetonitrile	5 Min	Charm†	Chia Seeds Corn Pregel	Flax Seed Quinoa	Rice Protein Concentrate Soy Protein Isolate	Wheat Midds
<b>WET-S5 Zearalenone Quantitative Test</b>			<b>Quantitation Range:</b> 50 to 1000 ppb			
Water Extraction Technology	5 Min	FGIS‡	Barley Corn	DDGS Sorghum	Wheat	

† USDA's Federal Grain Inspection Service.

‡ In-house validation. Charm Sciences regularly qualifies new commodities to best fit our customer's needs. Please contact Charm Sciences for the most updated list of approved commodities.

¥ Reduced recoveries observed without NaCl added to extraction

## Simple Procedure



1 Add sample.



2 Close door to incubate/read.



3 Results in seconds/minutes.



Incubate multiple strips simultaneously, then read results on the Charm EZ-M system.