

**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

Extraction Solvent	Incubation Time	Approval	Commodities			
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FAST Aflatoxin Quantitative Test			Quantitation Ranges: 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/Soy Blend DDG	DDGS Hominy Millet Oats Oat Groats Popcorn	Rough Rice Rye Sorghum Soybean Hulls Soybean Meal Soybeans	Wheat
		Charm <sup>‡</sup>	Barley/Oat Groats Blend Beet Pulp Chia Seeds Chickpeas Corn Bran Corn Starch	Flax Seed Ginger Root Green Lentils Green Pea Flour High Amylose Corn Starch- High Starch Sweet Potato	Milled Rice Parboiled Rice Pea Fiber Pearled Barley Precooked Corn Meal Rice Hulls	Rice Starch Soybean Mill Run Sweet Potato Yellow Pea Flour
84% Acetonitrile	5 Min	Charm <sup>‡</sup>	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 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	



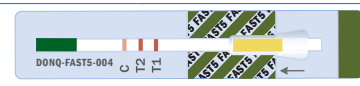
WET®-S3 Aflatoxin Quantitative Test			Quantitation Ranges: 5 to 100 ppb, 50 to 300 ppb			
Water Extraction Technology	3 Min	FGIS <sup>†</sup>	Corn			



WET-S5 Aflatoxin Quantitative Test			Quantitation Ranges: 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	



FAST5 DON Quantitative Test			Quantitation Ranges: 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 Corn Corn Bran Corn Germ Meal Corn Gluten Feed Corn Gluten Meal Corn Starch DDGS	Ginger Root Green Lentils High Amylose Corn Starch High Starch Sweet Potato Hominy M-fiber Malted Barley Milled Rice Millet Oats Oat Fiber Oat Fiber, Fruit, and Vegetable Blend	Oat Groats Palm Kernel Meal Parboiled Rice Pea Fiber 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 Triticale Wheat Wheat Bran Wheat Flour Wheat Midds Wheat Red Dog Wheat Screenings



DONQ2 Quantitative Test			Quantitation Ranges: 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 DDGS Hominy Malted Barley Milled Rice	Oats Rice Bran Rough Rice Rye Sorghum Soybean Meal	Triticale Wheat Wheat Bran
		Charm <sup>‡</sup>	Palm Kernel Meal Pearled Barley	Popcorn Rapeseed Meal	Yeast	



Extraction Solvent	Incubation Time	Approval	Commodities			
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<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>	Barley Barley/Oat Groats Blend Beet Pulp Brown Rice Corn Corn Germ Meal Corn Gluten Meal	Corn Starch DDGS Flaking Corn Grits Ginger Root High Amylose Corn Starch High Starch Sweet Potato M-fiber	Millet Oat Fiber Oat Fiber, Fruit, and Vegetable Blend Oat Groats Precooked Corn Meal Rough Rice	Sorghum Soybean Meal Sweet Potato Wheat Yeast	
25% Acetonitrile: 25% Methanol	5 Min	Charm <sup>‡</sup>	Rice Bran (defatted)	Stabilized Rice Bran			

<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	

<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	

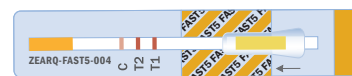
<b>Ochratoxin Quantitative Test (Ochratoxin A)</b>			<b>Quantitation Ranges:</b> 5 to 30 ppb, 20 to 100 ppb				
70% Methanol	10 Min	FGIS <sup>†</sup>	Barley Buckwheat Corn	Corn Gluten Meal Malted Barley Oat Groats	Rye Sorghum Soybean Meal	Soybeans Wheat	
		Charm <sup>‡</sup>	Barley/Oat Groats Blend Beet Pulp Brewer's Rice Brown Rice Chickpeas Ginger Root	Green Lentils Green Pea Flour High Starch Sweet Potato M-fiber Millet Oat Fiber	Oat Fiber, Fruit, and Vegetable Blend Oats Parboiled Rice Pea Fiber Quinoa	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>	Barley Beet Pulp Brewer's Rice Brown Rice Chickpeas Corn	Corn Gluten Meal Corn Starch Flax Seed Green Lentils High Amylose Corn Starch 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	



Extraction Solvent	Incubation Time	Approval	Commodities
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FAST5 Zearalenone Quantitative Test			Quantitation Ranges: 50 to 350 ppb, 300 to 1000 ppb (400 to 1500 ppb and 800 to 3000 ppb for Corn Gluten Meal)			
70% Methanol	5 Min	Charm <sup>†</sup>	Barley Barley/Oat Groats Blend Beet Pulp Brewer's Rice Brown Rice Chickpeas Corn Corn Gluten Meal 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 <sup>†</sup>	Chia Seeds Flax Seed	Quinoa Rice Protein Concentrate	Soy Protein Isolate	



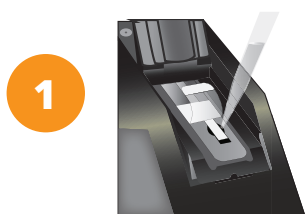
WET-S5 Zearalenone Quantitative Test			Quantitation Range: 50 to 1000 ppb			
Water Extraction Technology	5 Min	FGIS <sup>†</sup>	Barley Corn	DDGS Sorghum	Wheat	



<sup>†</sup> USDA's Federal Grain Inspection Service.

<sup>‡</sup> 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.

## Simple Procedure



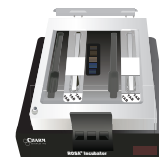
1 Add sample.



2 Close door to incubate/read.



3 Results in seconds/minutes.



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