Quantitative Tests (continued)					
Extraction Solvent	**Incubation Time**	**Approval**	**Commodities**		
Zearalenone Quantitative Test - Ethanol Extraction			**Quantitation Range:** 0–1400 ppb		
50% Ethanol	10 Min	Charm‡	Barley Corn Corn Meal DDGS Milled Rice	Palm Kernel Meal Rice Bran Rice Bran (hi-fat) Sorghum Soybean Meal	Wheat Wheat Bran Wheat Flour Wheat Midds Wheat Red Dog
FAST5 Zearalenone Quantitative Test			**Quantitation Range:** 0-350 ppb, 300-1400 ppb		
70% Methanol	5 Min	Charm‡	Barley Corn DDGS Flaking Corn Grits	Milled Rice Oats Rice Rough Rice	Sorghum Wheat Wheat Bran Wheat Flour

Charm ROSA Qualitative (Positive/Negative) Tests					
Extraction Solvent	**Incubation Time**	**Visual Option**	**Threshold**	**Approval**	**Commodities**
Aflatoxin P/N Test					
50% Ethanol	3 Min	NO	10 ppb	GIPSA†	Corn
50% Ethanol	3 Min	YES	20 ppb	GIPSA†	Corn
70% Methanol	3 Min	NO	10 ppb	Charm‡	Corn
70% Methanol	3 Min	YES	20 ppb	Charm‡	Corn
BEST Aflatoxin P/N Test					
Biodegradable Extraction Solution	3 Min	NO	10 ppb	GIPSA†	Corn
	3 Min	YES	20 ppb	GIPSA†	Corn
DON P/N Test					
Deionized or Distilled Water	3 Min	YES	0.5 ppm	GIPSA†	Corn Wheat
	3 Min	YES	1 ppm	GIPSA†	Barley Corn Wheat
	3 Min	YES	2 ppm	GIPSA†	Corn Wheat
	3 Min	YES	5 ppm	GIPSA†	Corn Wheat

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CHARM® ROSA® (Rapid One Step Assay)
Lateral Flow Mycotoxin Tests
A QUICK REVIEW



Charm Lateral Flow at a Glance

CHARM SCIENCES INC

Charm ROSA Quantitative Tests

Extraction Solvent	Incubation Time	Approval	Commodities		
FAST Aflatoxin Quantitative Test			**Quantitation Range:** 0-30 ppb, 20-150 ppb, > 100 ppb		
70% Methanol	3 Min	GIPSA†	Corn		
	5 Min	GIPSA†	Barley Basmati Rice Brewer's Rice Brown Rice Corn Flour Corn Germ Meal Corn Gluten Meal Corn Meal	Corn Screenings Corn/Soy Blend DDG DDGS Flaking Corn Grits Hominy Milled Rice Millet	Oats Popcorn Rough Rice Rye Sorghum Soybeans Wheat Wheat Flour
		Charm‡	Soybean Hulls Soybean Meal		
84% Acetonitrile	5 Min	Charm‡	Corn Gluten Feed Cottonseed Hulls	Cottonseed Meal Peanut Hulls	Peanut Meal Whole Cottonseed
Aflatoxin Quantitative Test			**Quantitation Range:** 0-150 ppb, 100-400 ppb		
70% Methanol	10 Min	Charm‡	Barley Basmati Rice Brewer's Rice Corn Corn Flour Corn Germ Meal Corn Gluten Meal Corn Meal Corn Screenings	Corn/Soy Blend Cracked Corn DDG DDGS Flaking Corn Grits Hominy Milled Rice Millet Oats	Popcorn Rough Rice Rye Sorghum Soybeans Wheat Wheat Flour
84% Acetonitrile	10 Min	Charm‡	Corn Gluten Feed Cottonseed Hulls	Cottonseed Meal Peanut Hulls	Whole Cottonseed
Aflatoxin Quantitative Test - Ethanol Extraction			**Quantitation Range:** 0-150 ppb		
50% Ethanol	10 Min	Charm‡	Barley Brewer's Rice Corn Corn Bran Corn Flour Corn Germ Meal Corn Gluten Meal Corn Meal Cottonseed Hulls Cottonseed Meal DDGS	Extruded Corn Extruded Rice Extruded Soybeans Hominy Mash Milled Rice Oats Peanut Hulls Rice Bran Rice Bran (hi-fat) Rice Hulls	Sorghum Soybean Hulls Soybean Meal Sunflower Meal Wheat Wheat Bran Wheat Flour Wheat Midds Wheat Red Dog
WET® Aflatoxin Quantitative Test			**Quantitation Range** 0-25 ppb, 20-150 ppb, 50-500 ppb		
Water Extraction Technology	5 Min	GIPSA†	Barley Corn Corn Flour Corn Germ Meal Corn Gluten Meal Corn Meal	Corn/Soy Blend DDGS Hominy Oats Popcorn Rice Bran (defatted)	Rough Rice Sorghum Soybeans Wheat
FAST5 DON Quantitative Test			**Quantitation Range:** 0-1.5 ppm, 1-6 ppm, > 5 ppm		
Deionized or Distilled Water	5 Min	GIPSA†	Barley Corn DDGS Malted Barley	Milled Rice Oats Rough Rice Sorghum	Wheat Wheat Bran Wheat Flour Wheat Midds
		Charm‡	Brewer's Rice Buckwheat Corn Bran Corn Germ Meal Corn Gluten Meal	Hominy Palm Kernel Meal Rapeseed Meal Rice Bran Rye	Soybean Meal Triticale Wheat Red Dog

‡ In-house validation.

† USDA's Grain Inspection, Packers & Stockyards Administration. All GIPSA-appoved commodities are also Charm-approved commodities.

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.

Quantitative Tests (continued)

Extraction Solvent	Incubation Time	Approval	Commodities		
DON Quantitative Test			**Quantitation Range:** 0-6 ppm, 6-12 ppm, 12-24 ppm		
Deionized or Distilled Water	10 Min	Charm‡	Barley Brewer's Rice Buckwheat Corn Corn Bran Corn Germ Meal Corn Gluten Meal DDGS Hominy	Malted Barley Milled Rice Oats Palm Kernel Meal Rapeseed Meal Rice Bran Rough Rice Rye Sorghum	Soybean Meal Triticale Wheat Wheat Bran Wheat Flour Wheat Midds Wheat Red Dog
WET® DON Quantitative Test			**Quantitation Range:** 0-1500 ppb, 500-6000 ppb		
Water Extraction Technology	5 Min	Charm‡	Barley	Corn	Wheat
FAST5 Fumonisin Quantitative Test			**Quantitation Range:** 0-1.5 ppm, 1-6 ppm, > 5 ppm		
70% Methanol	5 Min	GIPSA†	Barley Corn Flaking Corn Grits	Millet Oats Rough Rice	Sorghum Wheat
Fumonisin Quantitative Test			**Quantitation Range:** 0-1 ppm, 0-6 ppm, 6-60 ppm		
70% Methanol	10 Min	Charm‡	Barley Corn DDGS	Flaking Corn Grits Millet Oats	Rough Rice Sorghum Wheat
Fumonisin Quantitative Test - Ethanol Extraction			**Quantitation Range:** 0-1 ppm, 0-6 ppm, 6-60 ppm		
50% Ethanol	10 Min	Charm‡	Barley Corn DDGS	Hominy Oats Sorghum	Soybean Meal
WET® Fumonisin Quantitative Test			**Quantitation Range:** 0-1 ppm, 1-6 ppm, >5 ppm		
Water Extraction Technology	5 Min	GIPSA†	Barley Corn Millet	Oats Popcorn Rough Rice	Sorghum Wheat
Ochratoxin Quantitative Test (Ochratoxin A)			**Quantitation Range:** 0-30 ppb, 20-150 ppb		
70% Methanol	10 Min	GIPSA†	Barley Corn Corn Gluten Meal Malted Barley	Oats Rye Sorghum Soybean Meal	Wheat
		Charm‡	Buckwheat	Rice	
T2/HT2 Quantitative Test			**Quantitation Range:** 0-250 ppb, 100–2500 ppb		
70% Methanol	10 Min	Charm‡	Barley Corn Corn Gluten Meal	Oats Sorghum Soybean Meal	Wheat Wheat Flour
Zearalenone Quantitative Test			**Quantitation Range:** 0–1400 ppb		
70% Methanol	10 Min	GIPSA†	Barley Corn DDGS Flaking Corn Grits	Milled Rice Oats Rough Rice Sorghum	Wheat Wheat Flour