

**ROSA® FAST5 DON Quantitative Test Flow Chart**



See Approved Commodities Below

**Test Ranges:** 0 to 1.5 ppm  
0 to 6 ppm

**Charm Approved Commodities:**

Barley, Brewer's Rice, Buckwheat, Corn, Corn Bran, Corn Germ Meal, Corn Gluten Feed, Corn Gluten Meal, DDGS, Hominy, Malted Barley, Milled Rice, Oats, Palm Kernel Meal, Rapeseed Meal, Rice Bran, Rough Rice, Rye, Soybean Meal, Triticale, Wheat, Wheat Bran, Wheat Flour, Wheat Midds, Wheat Red Dog, Wheat Screenings

Sample Preparation

**(1) Weigh**  
Ground sample  
50 g

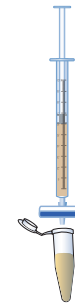
**(2) Add Solvent**  
Deionized or Distilled Water  
250 mL

**(3) Extract**  
Shake vigorously or blend for 30 seconds; do not exceed 2 minutes

**(4) Clarify**  
Centrifuge or filter

**DDGS Only**  
Adjust Extract pH to 6.5 to 7.5 with 30% KOH

**Filter for:**  
Wheat Midds and Rice Bran



Pass extract through GF/CA Filter

**0 to 1.5 ppm**

100 µL Extract + 1.0 mL DONQ-FAST5 Dilution Buffer → Mix → Diluted Extract

**and if needed**

**0 to 6 ppm**

300 µL Diluted Extract + 1.0 mL DONQ-FAST5 Dilution Buffer → Mix → 2<sup>nd</sup> Diluted Extract

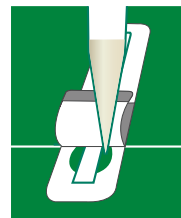
**(5) Dilute**

Prepare Diluted Extract and if needed 2<sup>nd</sup> Diluted Extract

Test Procedure



**(1)**  
Place test strip in ROSA Incubator or Charm EZ-M system.  
For Charm EZ-M system select appropriate test, commodity and dilution if prompted.



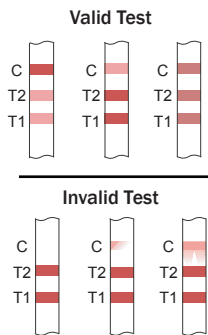
**(2)**  
Peel tape.  
Pipet 300 µL Diluted Extract or 2<sup>nd</sup> Diluted Extract into sample compartment.  
Reseal tape.



**(3)**  
Close lid.  
Incubate for 5 minutes.

Read Result

**(1) Inspect test strip**



**(2) Read results with ROSA-M Reader or Charm EZ-M system**

**ROSA-M Reader:** Select DON channel in 3-line mode (blinking) and appropriate MATRIX.

**Charm EZ-M system:** Select appropriate test, commodity and dilution if prompted.

Commodity	Sample (Dilution)	MATRIX	Quantitation Range	LOD
All commodities except Corn and DDGS	Diluted Extract (DE)	00	0.5 to 1.5 ppm	0.1 ppm
	2 <sup>nd</sup> Diluted Extract (2ND DE)	01	1 to 5.4 ppm	-
Corn and DDGS	Diluted Extract (DE)	03	0.5 to 1.5 ppm	0.1 ppm
	2 <sup>nd</sup> Diluted Extract (2ND DE)	04	1 to 5.4 ppm	-