

## 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, Sorghum, Soybean Meal, Triticale, Wheat, Wheat Bran, Wheat Flour, Wheat Midds, Wheat Red Dog, Wheat Screenings

### Sample Preparation



#### (1) Weigh

Ground sample

50 g  
or 10 g



#### (2) Add Solvent

Deionized or Distilled  
Water

250 mL  
or 50 mL

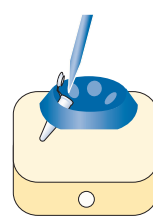


#### (3) Extract

Shake vigorously  
or blend for 30 seconds;  
do not exceed 2 minutes

#### DDGS Only

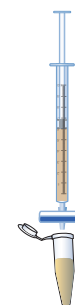
Adjust **Extract** pH to 6.5 to 7.5 with 30% KOH



#### (4) Clarify

Centrifuge, filter,  
or allow to settle

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



Pass extract through  
GF/CA Filter

**0 - 1.5 ppm**

100 µL Extract  
+  
1.0 mL DONQ-FAST5  
Dilution Buffer

Mix

**Diluted Extract**

**and if needed**

**0 - 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**

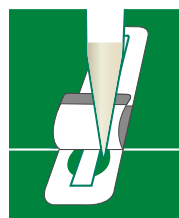
### Test Procedure



#### (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.



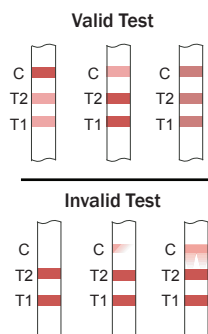
#### (3)

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	-