

# Refer to Current Charm® Operator's Manual for Complete Test Procedure

## ROSA® DONQ2 Quantitative Test Flow Chart

See Validated Commodities Below

Test Ranges: 0 to 6 ppm  
0 to 40 ppm

### FGIS-Approved Commodities:

Barley, Brown Rice, Buckwheat, Corn, Corn Bran, Corn Germ Meal, Corn Gluten Feed, Corn Gluten Meal, Distillers Dried Grain with Solubles, Hominy, Malted Barley, Milled Rice, Oats, Rice Bran, Rough Rice, Rye, Sorghum, Soybean Meal, Triticale, Wheat, Wheat Bran

### Charm-Validated Commodities:

Palm Kernel Meal, Pearled Barley, Rapeseed Meal

### Sample Preparation



#### (1) Weigh

Ground sample<sup>A</sup>

50 g  
or 10 g



#### (2) Add Water

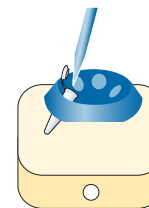
Deionized or Distilled Water

250 mL  
or 50 mL



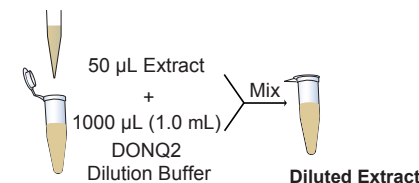
#### (3) Extract

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



#### (4) Clarify

Allow extract to  
settle and then  
centrifuge or filter



#### (5) Dilute

Prepare **Diluted Extract**

### DDGS Only

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

<sup>A</sup>50 g is the official FGIS required/Charm recommended sample weight, 10 g is an unofficial/optional sample weight

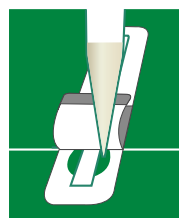
### Test Procedure



#### (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**  
into sample compartment.

Reseal tape.



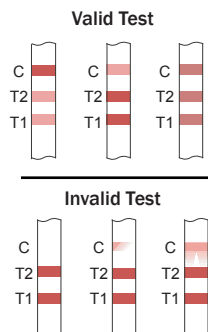
#### (3)

Close lid.

Incubate for 2 minutes.

### Read Result

#### (1) Inspect test strip



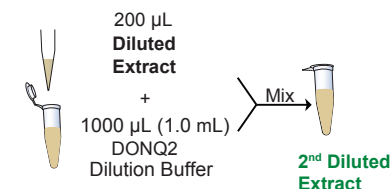
#### (2) Read result with ROSA-M Reader or Charm EZ-M system

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

**Charm EZ-M system:** Select appropriate test (DONQ2), commodity and dilution if prompted.

Commodity	Sample (Dilution)	MATRIX	Quantitation Range	LOD
Barley, Brown Rice, Buckwheat, Corn Bran, Corn Germ Meal, Corn Gluten Feed, Corn Gluten Meal, Hominy, Malted Barley, Milled Rice, Oats, Pearled Barley, Rice Bran, Rough Rice, Rye, Sorghum, Soybean Meal, Triticale, Wheat, Wheat Bran	Diluted Extract (DE)	00	0.5 to 5.4 ppm	0.1 ppm
Corn and Distillers Dried Grain with Solubles	Diluted Extract (DE)	01	0.5 to 5.4 ppm	0.1 ppm
All Commodities	2 <sup>nd</sup> Diluted Extract (2ND DE)	02	4 to 30 ppm	-

#### For quantitation of 4 to 30 ppm:



#### (1) Prepare 2<sup>nd</sup> Diluted Extract

#### (2) Repeat Test Procedure (steps 1, 2, 3) with 2<sup>nd</sup> Diluted Extract

#### (3) Read Result