

ROSA® DONQ2 Quantitative Test Flow Chart

See Validated Commodities Below

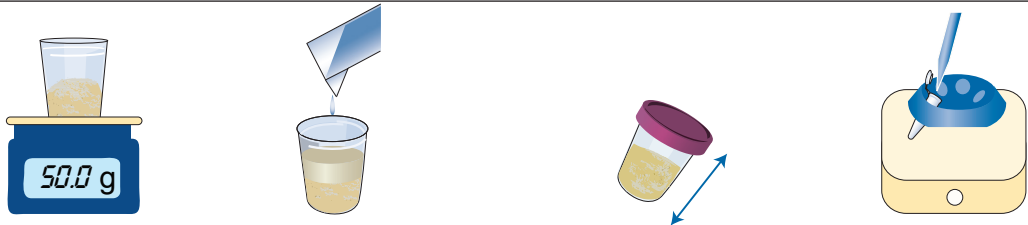
**Test Ranges: 0 to 6 ppm
0 to 60 ppm**

GIPSA-Approved Commodities:

Barley, Brewer's Rice, 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, Rapeseed Meal, Rice Bran, Rough Rice, Rye, Sorghum, Soybean Meal, Triticale, Wheat, Wheat Bran, Wheat Flour, Wheat Midds, Wheat Red Dog, Wheat Screenings

Charm-Validated Commodity:
Palm Kernel Meal

Sample Preparation



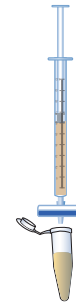
- (1) Weigh**
Ground sample^A
50 g
or 10 g
- (2) Add Water**
Deionized or Distilled Water
250 mL
or 50 mL
- (3) Extract**
Shake vigorously
or blend for 30 seconds;
do not exceed 2 minutes
- (4) Clarify**
Allow extract to
settle and then
centrifuge or filter

DDGS Only

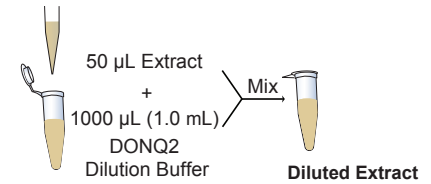
Adjust **Extract** pH to 6.5 to 7.5 with 30% KOH

^A50 g is the official GIPSA required/Charm recommended sample weight, 10 g is an unofficial/optional sample weight

Filter for:
Rice Bran and Wheat Midds



Pass extract through GF/CA Filter



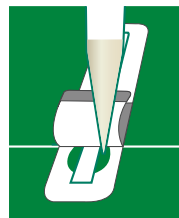
- (5) Dilute**
Prepare **Diluted Extract**

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.



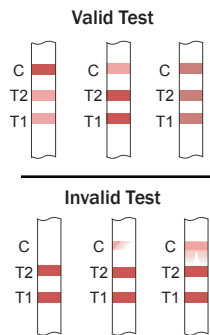
- (2)**
Peel tape.
Pipet 300 µL **Diluted Extract** into sample compartment.
Reseal tape.



- (3)**
Close lid.
Incubate for 2 minutes.

Read Result

(1) Inspect test strip



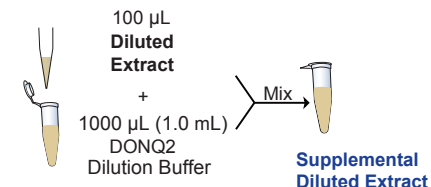
(2) Read result with ROSA-M Reader or Charm EZ-M system

ROSA-M Reader: Select DON channel in 3-line mode (blinking) and MATRIX 00.

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

Sample (Dilution)	MATRIX	Quantitation Range	LOD
Diluted Extract (DE)	00	0 to 5.4 ppm	0.1 ppm
Supplemental Diluted Extract (SUPP DE)	02	5 to 60 ppm	-

For quantitation of 5 to 60 ppm:



- (1) Prepare Supplemental Diluted Extract**
- (2) Repeat Test Procedure (steps 1, 2, 3) with Supplemental Diluted Extract**
- (3) Read Results**