

EFFECTIVE DATE	NP Analytical Laboratories	METHOD CODE
REVISED: 01/09/26	LABORATORY TEST METHOD SUMMARY	FUTX
REPLACES: 01/05/21	Fumonisin B ₁ , B ₂ and B ₃ by Neogen Reveal Q+	PAGE 1 OF 1
KEY WORDS: Fumonisin, B ₁ , B ₂ , lateral flow, immunoassay		

1. SCOPE AND PURPOSE:

This method quantitatively measures Fumonisin B₁ and B₂ toxins in corn, corn gluten meal (CGM), wheat, equine feed, dog and cat foods. NOTE: There is 80% reactivity with Fumonisin B₂ and B₃, compared with Fumonisin B₁, 100%. There is no assurance that matrices other than those listed can be tested using this method. List of matrices may be modified as needed.

2. PRINCIPLE:

- 2.1. Reveal Q+ for Fumonisin is a single step lateral flow test based on an immunoassay format. Samples are extracted in an ethanol/water solution. After filtration, an aliquot of the extract is mixed with diluent. This solution is wicked onto a Reveal Q+ for Fumonisin test strip. The Reveal Q+ for Fumonisin test strip is read on a Raptor Solo reader that uses algorithms to convert the test line density into a quantitative result.
- 2.2. The lowest confidence level using a 5 gram sample is 0.3 ppm Fumonisin.
- 2.3. Known Interferences: There are no known interferences.

3. PRECISION:

Records of method precision based on Method Validation and/or known control summaries are located in the QA Master file for this test method. Assay precision may vary with test matrix and analyte level. Terms used to describe method precision are defined in NPSOP3000, *Validation of Quantitative Chemical Tests*.

4. REFERENCES:

- 4.1. Raptor Solo Integrated Analysis Platform User Manual
- 4.2. USDA-GIPSA 2012-032
- 4.3. Nestle LI-75.218 VF – Fumonisin B₁+B₂ by Reveal Q+ (888)