

These dilution protocols are for testing corn samples at levels **greater than 30 ppb Aflatoxin**. After initial testing, if further information about the level of Aflatoxin present is desired, follow the instructions below for diluting and re-testing.

Begin with the clarified extract obtained from the TotalTox Aflatoxin Base Protocol (Step 5. M238).

PREPARE DILUTION SOLUTION

Dilution Solution can be prepared up to 30 days in advance of testing need and stored at room temperature.



- Dissolve 1 EB17 pouch in 150 mL distilled / deionized water
- Label, date, and document the preparation
- Dilution Solution will appear cloudy
- Thoroughly mix before use
- ACC-103, TotalTox Dilution Set, includes extra EB17 and blue Dilution Tubes
- If you anticipate dilution testing, stage dilution tubes with 400 µL dilution solution in advance to improve your workflow

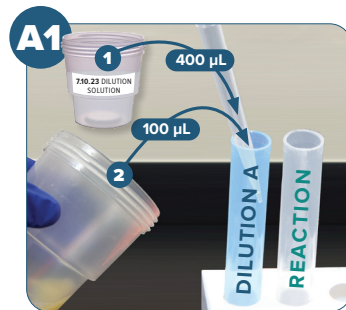
TEST PROCEDURE for Dilution A

30-100 ppb

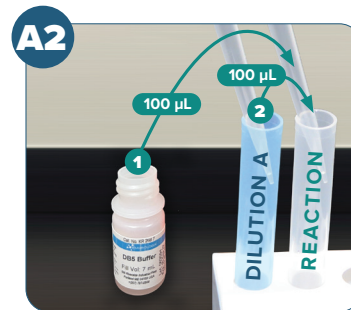
(30-100 is the FGIS-validated range; you may receive results over 100 as a result of normal data distribution)

Ensure Incubator has reached 22°C

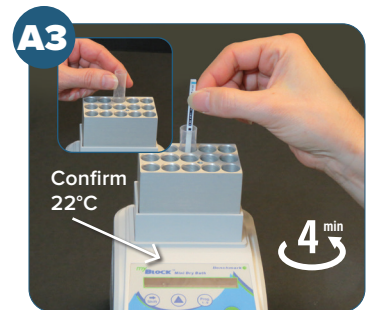
***Note:** acclimation is only required when the ambient temperature is unknown or outside of 20-24°C (68-75°F).



In a blue **Dilution Tube**, dilute 100 µL of clarified extract with 400 µL of **Dilution Solution** and mix well.



Using a clean tip, pipette 100 µL of **DB5** into a clear **Reaction Tube**, then transfer 100 µL of diluted extract from the blue **Dilution Tube** and mix well.



Place **Reaction Tube** in the Incubator for 2 minutes.* Add a new test strip - arrow tape down - and allow to develop for **4 minutes**. Select **Dilution 1:A** on your QuickScan results screen.

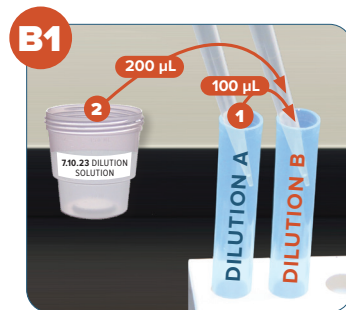
TEST PROCEDURE for Dilution B

100-300 ppb

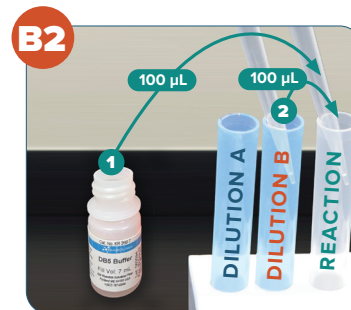
(100-300 is the FGIS-validated range; you may receive results over 300 as a result of normal data distribution)

Ensure Incubator has reached 22°C

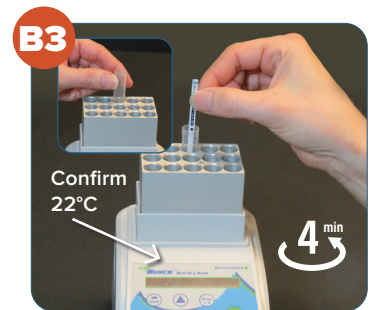
***Note:** acclimation is only required when the ambient temperature is unknown or outside of 20-24°C (68-75°F).



In a clean blue **Dilution Tube**, mix 100 µL of **Diluted Extract** (saved from step A1 above) with 200 µL of **Dilution Solution** and mix well.



Using a clean tip, pipette 100 µL of **DB5** into a clear **Reaction Tube**, then transfer 100 µL of diluted extract from the blue **Dilution B Tube** and mix well.



Place **Reaction Tube** in the Incubator for 2 minutes.* Add a new test strip - arrow tape down - and allow to develop for **4 minutes**. Select **Dilution 1:B** on your QuickScan results screen.