



User's Manual

Tenuazonic Acid ELISA Kit



DEIA-BY063



1 Kit (96T), 1 Pack (96T×5), 1 Pack (96T×50)





This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

Creative Diagnostics

 **Address: 45-1 Ramsey Road, Shirley, NY 11967, USA**

 **Tel: 1-631-624-4882 (USA) 44-161-818-6441 (Europe)**  **Fax: 1-631-938-8221**

 **Email: info@creative-diagnostics.com**  **Web: www.creative-diagnostics.com**

PRODUCT INFORMATION

Intended Use

Tenuazonic Acid ELISA (Enzyme-Linked Immunosorbent Assay) kit is intended for the quantitative determination of Tenuazonic Acid residue in wheat.

General Description

Tenuazonic acid is a mycotoxin produced by *Alternaria* species. It is the most studied *Alternaria* mycotoxin and is considered to have the highest toxicity amongst them. Tenuazonic acid causes haemorrhages in several organs, suppression in weight gain and reduction in feed efficiency in animals. Tenuazonic acid is known to be a powerful inhibitor of eukaryotic protein synthesis, and its association with oesophageal cancer has been reported in human populations at risk of high exposure to tenuazonic acid. Since tenuazonic acid is one of the major mycotoxins in humans and other organisms, it is important to minimize tenuazonic acid contamination in food and feed to avoid health risks. (Singh, K., et al., 2019)

Storage

The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended below.

Store the unopened product at 2 - 8 °C. Do not use past expiration date.

Typical Standard Curve

0, 31.25, 62.5, 125, 250, 500, 1000, 2000 ng/mL

Precision

6.96-9.53%

Detection Range

58.6-1316.7 ng/mL

Sensitivity

280.3 ng/mL

Specificity

Tenuazonic acid 100%

Alternariol <1%

Alternariol methyl ether <1%

Recovery

89.3-115.8%