

Deoxynivalenol (DON) ELISA Kit | DON elisa kit

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CATALOG #
AAA80519

PRODUCT SYNONYMS

Deoxynivalenol (DON); Deoxynivalenol (DON) ELISA Kit; DON elisa kit

PRODUCT SPECIFICATIONS

Sequence Length	187
Assay Type	Competitive
Samples	Feedstuff, feed, grain
Detection Range	1 ug/kg~81 ug/kg
Sensitivity	< 1 ug/kg
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<10%. Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

ADDITIONAL INFORMATION

Related Product Information for DON elisa kit

Background: Deoxynivalenol (DON), also known as Vomitoxin, belongs to trichothecene and is produced by mould fusarium, growing in grains such as wheat, maize, barley and stover. Because of causing vomiting in pigs, hence the name is Vomitoxin. It has some harmful effects to human body and has been listed as Category III carcinogen by EU classification criteria. In 2011, the limit of Deoxynivalenol residues is 1000 ug/kg in grains and grains products in China. This kit is a detection product developed based on ELISA technology, with operation time as short as 25 min and a sensitivity of 1 ug/kg, and linear range from 1 ug/kg~81 ug/kg.

Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with Deoxynivalenol antigen. Standards or samples are added to the appropriate microtiter plate wells with Deoxynivalenol antibody and Horseradish Peroxidase (HRP) conjugated anti-antibody. The competitive inhibition reaction is launched between pre-coated Deoxynivalenol and Deoxynivalenol in standards or samples with the Deoxynivalenol antibody. A substrate solution is added to the wells and the color develops in opposite to the amount of Deoxynivalenol in the standards or samples. The color development is stopped and the intensity of the color is measured.

NCBI AND UNIPROT INFORMATION

NCBI GI #	386765241
NCBI GeneID	40838
NCBI Accession #	NP_001246955.1
NCBI GenBank Nucleotide #	NM_001260026.1
Molecular Weight	25,521 Da

NCBI Official Full Name	don juan, isoform C
NCBI Official Synonym Full Names	don juan
NCBI Official Symbol	dj
NCBI Official Synonym Symbols	bs02h03.y1; CG1980; Dj; DJ; DmelCG1980
NCBI Protein Information	CG1980 gene product from transcript CG1980-RA
UniProt Protein Name	Sperm-specific protein Don juan
UniProt Gene Name	dj
UniProt Entry Name	DJ_DROME

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/elisa-kits/deoxynivalenol-don/80519>