DNSH ELISA (5091DNSH)

General

DNSH ELISA is a competitive enzyme immunoassay for the quantitative detection of nifursol metabolite 3,5-dinitrosalicylic acid hydrazide (DNSH) in meat and seafood. Nirusol is a nitrofuran antibiotic banned as a feed additive in the European Union. A reference point of action (RPA)of 0.5 ug/kg is in force from 28 November 2022, like for the other nitrofurans AMOZ, AHD, AOZ and SEM.

The **DNSH ELISA** is a competitive enzyme immunoassay based on antibodies directed against DNSH.

Kit characteristics

***Microtiter plate*:**
96 wells
12 x 8 Breakapart

***Antibody cross-reactivity*:**

DNSH	100%
Nifursol	119%
AHD	<0.1%
AMOZ	<0.1%
AOZ	<0.1%
SEM	<0.1%

Conjugate:
DNSH-HRP stabilized

Standard range Meat:
0, 0.11, 0.28, 0.70, 1.76, and 4.4 µg/kg

Standard range Seafood:
0, 0.09, 0.23, 0.58, 1.44 and 3.6 µg/kg

Assay characteristics

Matrix	LOD (µg/kg)	CCβ (µg/kg)
Meat	0.13	0.25
Fish and shellfish	0.15	0.25

Sample preparation
For meat and seafood efficient methods are included in the kit manual.

Procedure
Sample/standard are pipetted into the wells and incubated for 30 minutes at 20°C - 25°C (dark). After discarding the solution, the conjugate is added and incubated for 15 minutes at 20°C – 25°C (dark). After a washing procedure ready-to-use substrate is added and incubated for 15 minutes at 20°C - 25°C. The reaction is stopped and the absorbance is read in a spectrophotometer at 450 nm.
EuroProxima's user-friendly software converts the measured optical density into the concentration of the metabolite in the starting material.

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