

Instructions for Use

beta Defensin-2 (stool) ELISA

IVD



REF EIA-5700

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**Please use only the valid version of the Instructions for Use provided with the kit.
Verwenden Sie nur die jeweils gültige, im Testkit enthaltene, Gebrauchsanweisung.
Si prega di usare la versione valida dell'inserito del pacco a disposizione con il kit.
Por favor, se usa solo la version valida de la metodico técnico incluido aqui en el kit.**

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1 INTENDED USE

This assay is intended for the quantitative determination of β -defensin 2 in stool.

For in vitro diagnostic use only.

2 INTRODUCTION

The β -defensins are an integral part of the congenital immune system and contribute with their antimicrobial effect to the barrier function of intestinal epithelial cells.

Defensins exert a variable degree of antimicrobial activity against bacteria, fungi, and some enveloped viruses. Vertebrate defensins are classified as α - or β -defensins, based on their pattern of disulfide bridges. Nine human defensins of epithelial origin have been found, three of them being β -defensins (HBD-1, -2 and -3). The expression of β -defensins is induced by the pro-inflammatory cytokines and also through microorganisms (e.g. *E. coli*, *H. pylori* or *P. aeruginosa*).

A β -defensin-2 deficiency can, for example, be observed in the intestinal mucous of patients with Crohn's disease. The defense system of the mucous membrane is therefore restricted and allows an increased invasion of bacteria, which could possibly lead to a typical infection in Crohn's disease patients.

Whether the β -defensin-2 deficiency could even play a role in the development of Crohn's disease is currently being researched. As is the possibility that it is the probiotic bacterium, which produces β -defensin.

Indications

- Reduced β -defensin levels with Crohn's disease (HBD-2)
- Increased β -defensin levels with Colitis Ulcerosa (HBD-2)

3 MATERIAL SUPPLIED

Label	Kit components	Quantity
PLATE	Microtiter plate, pre-coated	12 x 8 wells
WASHBUF	Wash buffer concentrate, 10x	2 x 100 mL
CONJ	Conjugate concentrate, (goat anti- β -defensin 2, HRP-conjugated)	1 x 200 μ L
STD	Standards, lyophilized	2 x 5 vials
STDBUF	Standard dilution buffer, ready to use	1 x 20 mL
CTRL 1	Control, lyophilized, (see specification for range)	2 x 1 vial
CTRL 2	Control, lyophilized, (see specification for range)	2 x 1 vial
IDK Extract [®]	Extraction buffer concentrate IDK Extract [®] 2.5x	2 x 100 mL
SUB	Substrate (tetramethylbenzidine), ready to use	1 x 15 mL
STOP	Stop solution, ready to use	1 x 15 mL

4 MATERIAL REQUIRED BUT NOT SUPPLIED

- Ultrapure water*
- Stool sample application system such as cat. no.: EIA-5674
- Calibrated precision pipettors and 10–1000 μ L single-use tips
- Foil to cover the microtiter plate
- Horizontal microtiter plate shaker
- Multi-channel pipets or repeater pipets
- Vortex
- Standard single-use laboratory glass or plastic vials, cups, etc.
- Microtiter plate reader (required filters see chapter 7)

* DRG recommends the use of ultrapure water (water type 1; ISO 3696), which is free of undissolved and colloidal ions and organic molecules (free of particles > 0.2 μ m) with an electrical conductivity of 0.055 μ S/cm at 25 °C (\geq 18.2 M Ω cm).

5 STORAGE AND PREPARATION OF REAGENTS

- To run the assay more than once, ensure that reagents are stored at the conditions stated on the label. **Prepare only the appropriate amount necessary for each run.** The kit can be used up to 4 times within the expiry date stated on the label.
- Reagents with a volume less than **100 µL** should be centrifuged before use to avoid loss of volume.
- **Preparation of the wash buffer:**
The **wash buffer concentrate (WASHBUF)** has to be diluted with ultrapure water **1:10** before use (100 mL WASHBUF + 900 mL ultrapure water), mix well. Crystals could occur due to high salt concentration in the concentrate. Before dilution, the crystals have to be redissolved at room temperature or in a water bath at 37 °C. The **WASHBUF** is stable at **2 °C - 8 °C** until the expiry date stated on the label.
Wash buffer (1:10 diluted WASHBUF) can be stored in a closed flask at **2 °C - 8 °C for 1 month**.
- **Preparation of the extraction buffer:**
The **extraction buffer concentrate *IDK Extract*[®]** has to be diluted with ultrapure water **1:2.5** before use (100 mL *IDK Extract*[®] + 150 mL ultrapure water), mix well. Crystals could occur due to high salt concentration in the concentrate. Before dilution, the crystals have to be redissolved at 37 °C in a water bath. The ***IDK Extract*[®]** is stable at **2 °C - 8 °C** until the expiry date stated on the label.
Extraction buffer (1:2.5 diluted *IDK Extract*[®]) can be stored in a closed flask at **2 °C - 8 °C for 4 months**.
- The **lyophilized standards (STD)** and **controls (CTRL)** are stable at **2 °C - 8 °C** until the expiry date stated on the label.
Before use, the STD and CTRL have to be reconstituted with **500 µL** of **standard dilution buffer (STDBUF)** and mixed by gentle inversion to ensure complete reconstitution. Allow the vial content to dissolve for 10 minutes and then mix thoroughly.
Standards and controls (reconstituted STD and CTRL) can be stored at **2 °C - 8 °C** for **2 weeks** or at **-20 °C** for **4 weeks** and can be used **once after thawing**.
- **Preparation of the conjugate:**
Before use, the **conjugate concentrate (CON J)** has to be diluted **1:101** in wash buffer (100 µL CONJ + 10 mL wash buffer).
The **CONJ** is stable at **2 °C - 8 °C** until the expiry date stated on the label.
Conjugate (1:101 diluted CONJ) **is not stable and cannot be stored**.
- All other test reagents are ready to use. Test reagents are stable until the expiry date (see label of test package) when stored at **2 °C - 8 °C**.

6 STORAGE AND PREPARATION OF SAMPLES

6.1 Sample stability

Raw stool

Raw stool is stable for 2 days at room temperature (15 °C - 30 °C),
7 days at 2 °C - 8 °C or
at least 4 weeks at -20 °C.

Stool extract

Stool extract (1:100) is stable for 3 days at room temperature (15 °C - 30 °C),
7 days at 2 °C - 8 °C or
7 days at -20 °C. Avoid more than 2 freeze-thaw cycles.

6.2 Extraction of the stool samples

Extraction buffer (1:2.5 diluted IDK Extract[®]) is used as a sample extraction buffer. We recommend the following sample preparation:

Stool Sample Application System (SAS) (cat. no.: EIA-5674)

Stool sample tube – Instructions for use

Please note that the dilution factor of the final stool suspension depends on the amount of stool sample used and the volume of the buffer.

SAS with 1.5 mL extraction buffer:

Applied amount of stool:	15 mg
Buffer Volume:	1.5 mL
Dilution Factor:	1:100

Please follow the instructions for the preparation of stool samples using the SAS as follows:

- The raw stool sample has to be thawed. For particularly heterogeneous samples we recommend a mechanical homogenisation using an applicator, inoculation loop or similar device.
- Fill the **empty sample tube** with **1.5 mL extraction buffer** (1:2.5 diluted *IDK Extract[®]*) before using it with the sample.
Important: Allow the extraction buffer to reach room temperature.
- Unscrew the tube (orange part of cap) to open. Insert the orange dipstick into the sample. The lower part of the dipstick has notches which need to be covered completely with stool after inserting it into the sample. Place dip-stick back into the tube. When putting the stick back into the tube, excess material will be stripped off, leaving 15 mg of sample to be diluted. Screw tightly to close the tube.
- Shake the tube well until no stool sample remains in the notches. Important: Please make sure that you have a maximally homogenous suspension after shaking. Especially with more solid samples, soaking the sample in the tube with buffer for ~ 10 minutes improves the result.
- Allow sample to stand for ~10 minutes until sediment has settled. Floating material like shells of grains can be neglected.
- Carefully unscrew the complete cap of the tube including the blue ring plus the dipstick. Discard cap and dipstick. Make sure that the sediment will not be dispersed again.

Dilution I: 1:100

6.3 Dilution of samples

The supernatant of the sample preparation procedure (dilution I) is diluted **1:2 in wash buffer**.

For example:

300 µL supernatant (dilution I) + **300 µL** wash buffer, mix well = **1:2 (dilution II)**

This results in a final dilution of **1:200**.

For analysis, pipet **100 µL of dilution II** per well.

7 ASSAY PROCEDURE

7.1 Principle of the test

This ELISA is designed for the quantitative determination of β -defensin 2 in stool.

The β -defensin 2 in standards and samples is bound to an available excess of polyclonal antibodies against β -defensin 2, which are immobilized on the surface of the microtiter plate. After a washing step, to remove all interfering substances, the quantification of bound β -defensin 2 is carried out by adding a polyclonal anti β -defensin 2 antibody, which is horseradish peroxidase labeled. After a washing step to remove the unbound components, the peroxidase substrate tetramethylbenzidine is added. Finally, the enzymatic reaction is terminated by an acidic stop solution. The color changes from blue to yellow and the absorbance is measured in the photometer at 450 nm. The intensity of the yellow color is proportional to the β -defensin 2 concentration in the sample.

A dose response curve of the absorbance unit (optical density, OD at 450 nm) vs. concentration is generated, using the values obtained from the standard. β -defensin 2, present in the patient samples, is determined directly from this curve.

7.2 Test procedure

Bring all **reagents and samples to room temperature** (15 °C - 30 °C) and mix well.

Mark the positions of standards/controls /samples on a protocol sheet.

Take as many **microtiter strips** as needed from the kit. Store unused strips together with the desiccant bag in the closed aluminium packaging at 2 °C - 8 °C. Strips are stable until expiry date stated on the label.

We recommend to carry out the tests in duplicate.

1. Wash the precoated microtiter plate **5 x with 250 μ L ELISA wash buffer**. After the final washing step, the inverted microtiter plate should be firmly tapped on absorbent paper.
2. Add **100 μ L of standards/samples/controls** into the respective wells.
3. Cover the strips and incubate for **1 hour at room temperature** (15 °C - 30 °C), **shaking* on a horizontal mixer**.
4. Discard the contents of each well and wash **5 times with 250 μ L wash buffer**. After the final washing step, the inverted microtiter plate should be firmly tapped on absorbent paper.
5. Add **100 μ L conjugate** (diluted CONJ) in each well.
6. Cover the strips and incubate for **1 hour at room temperature** (15 °C - 30 °C), **shaking* on a horizontal mixer**.
7. Discard the contents of each well and wash **5 times with 250 μ L wash buffer**. After the final washing step, the inverted microtiter plate should be firmly tapped on absorbent paper.
8. Add **100 μ L TMB substrate** (SUB) in each well.
9. Incubate for **10 - 20 minutes**** at room temperature (15 °C - 30 °C) in the dark.
10. Add **100 μ L ELISA stop solution** (STOP) and mix well.
11. Determine **absorption immediately** with an ELISA reader at **450 nm** against 620 nm (or 690 nm) as a reference. If no reference wavelength is available, read only at 450 nm. If the extinction of the highest standard exceeds the range of the photometer, absorption must be measured immediately at **405 nm** against 620 nm as a reference.

* We recommend shaking the strips at 550 rpm with an orbit of 2 mm.

** The intensity of the colour change is temperature sensitive. We recommend to observe the colour change and to stop the reaction upon good differentiation.

8 RESULTS

The following algorithms can be used alternatively to calculate the results. We recommend using the “4 parameter algorithm”.

1. **4 parameter algorithm**

It is recommended to use a linear ordinate for the optical density and a logarithmic abscissa for the concentration. When using a logarithmic abscissa, the zero standard must be specified with a value less than 1 (e. g. 0.001).

2. **Point-to-point calculation**

We recommend a linear ordinate for the optical density and a linear abscissa for the concentration.

3. **Spline algorithm**

We recommend a linear ordinate for the optical density and a linear abscissa for the concentration.

The plausibility of the duplicate values should be examined before the automatic evaluation of the results. If this option is not available with the program used, the duplicate values should be evaluated manually.

Stool

The obtained results have to be multiplied with the **dilution factor of 200** to get the actual concentrations.

In case **another dilution factor** has been used, multiply the obtained result with the dilution factor used.

9 LIMITATIONS

Samples with concentrations above the measurement range (see definition below) can be further diluted and re-assayed. Please consider this higher dilution when calculating the results.

Samples with concentrations lower than the measurement range (see definition below) cannot be clearly quantified.

The upper limit of the measurement range can be calculated as:

highest concentration of the standard curve × sample dilution factor to be used

The lower limit of the measurement range can be calculated as:

LoB × sample dilution factor to be used

10 QUALITY CONTROL

DRG recommends the use of external controls for internal quality control, if possible.

Control samples should be analyzed with each run. Results, generated from the analysis of control samples, should be evaluated for acceptability using appropriate statistical methods. The results for the patient samples may not be valid if within the same assay one or more values of the quality control sample are outside the acceptable limits.

10.1 Reference range

1 g stool is equivalent to 1 mL.

Stool (n = 101): 35 ng/mL

Based on studies of evidently healthy persons (n = 101) a mean value of 35 ng/mL stool was estimated. This value is consistent with the results published using this beta Defensin-2 (stool) ELISA Kit.

Stool (n = 23 healthy controls): 31.0 ± 15.4 ng/g stool^[3]

Reference range in stool samples: 8 - 60 ng/mL stool^[1]

We recommend each laboratory to establish its own reference range.

11 PERFORMANCE CHARACTERISTICS

11.1 Accuracy – Precision

Repeatability (Intra-Assay); n=30

The repeatability was assessed with 2 stool samples under constant parameters (same operator, measurement system, day and kit lot).

Sample	Mean value [ng/mL]	CV [%]
1	17.70	4.2
2	81.44	3.0

Reproducibility (Inter-Assay); n=24

The reproducibility was assessed with 4 stool samples under varying parameters (different operators, measurement systems, days and kit lots).

Sample	Mean value [ng/mL]	CV [%]
1	96.37	11.5
2	36.20	11.9
3	6.38	12.1
4	10.78	12.6

11.2 Accuracy – Trueness

The trueness states the closeness of the agreement between the result of a measurement and the true value of the measurand. Therefore, β -defensin 2 spikes with known concentrations were added to 8 different stool-samples. In the table below, 4 exemplary samples are shown:

Sample [ng/mL]	Spike [ng/mL]	Expected [ng/mL]	Obtained [ng/mL]	Recovery [%]
0.03	0.76	0.79	0.75	95.30
	0.10	0.13	0.14	110.00
	0.57	0.60	0.63	106.05
0.019	0.76	0.78	0.78	100.39
	0.10	0.12	0.14	113.45
	0.57	0.58	0.62	106.68
0.041	0.08	0.12	0.13	110.38
	0.17	0.21	0.21	99.04
	0.41	0.45	0.43	95.41
	0.93	0.98	0.87	89.26
0.027	0.08	0.11	0.11	99.63
	0.17	0.20	0.22	111.79
	0.41	0.43	0.43	98.71
	0.93	0.96	0.97	100.54

11.3 Linearity

The linearity states the ability of a method to provide results proportional to the concentration of analyte in the test sample within a given range. This was assessed according to CLSI guideline EP06-A with a serial dilution of 3 different stool samples.

For β -defensin 2 in stool, the method has been demonstrated to be linear from 0.065 to 2.200 ng/mL, showing a non-linear behaviour of less than $\pm 20\%$ in this interval.

Sample	Dilution	Expected [ng/mL]	Obtained [ng/mL]	Recovery [%]
A	1:200	0.873	0.873	100.00
	1:400	0.436	0.483	110.64
	1:800	0.218	0.241	110.48
	1:1600	0.109	0.121	110.98
	1:3200	0.055	0.065	118.60
B	1:200	1.866	1.866	100.00
	1:400	0.933	1.094	117.24
	1:800	0.466	0.528	113.27
	1:1600	0.233	0.253	108.52
	1:3200	0.117	0.123	105.81
	1:6400	0.058	0.069	118.57
C	1:200	2.200	2.200	100.00
	1:400	1.100	1.129	102.60
	1:800	0.550	0.520	94.48
	1:1600	0.275	0.262	95.12
	1:3200	0.138	0.139	101.14

11.4 Analytical Sensitivity

The following values have been estimated based on the concentrations of the standard without considering possibly used sample dilution factors.

Limit of blank, LoB 0.0085 ng/mL

Limit of detection, LoD 0.0155 ng/mL

Limit of quantitation, LoQ 0.0232 ng/mL

The evaluation was performed according to the CLSI guideline EP-17-A2. The specified accuracy goal for the LoQ was 20 % CV.

11.5 Analytical specificity

The specificity of the antibody was tested by measuring the cross-reactivity against a range of compounds with structural similarity to β -defensin 2. There was no cross-reactivity observed.

Substance tested	Concentration added	Concentration obtained [ng/mL]	Conclusion
Lysozyme	30	< 0.0085	< LoB
Calprotectin	52	< 0.0085	< LoB
PMN elastase	10	< 0.0085	< LoB
Myeloperoxidase	100	< 0.0085	< LoB
EDN	16	< 0.0085	< LoB
α 1-antitrypsin	10	< 0.0085	< LoB
Secretory IgA	600	< 0.0085	< LoB

12 PRECAUTIONS

- All reagents in the kit package are for *in vitro* diagnostic use only.
- Human materials used in kit components were tested and found to be negative for HIV, Hepatitis B and Hepatitis C. However, for safety reasons, all kit components should be treated as potentially infectious.
- Kit reagents contain sodium azide or Proclin as bactericides. Sodium azide and Proclin are toxic. Substrates for the enzymatic color reactions are toxic and carcinogenic. Avoid contact with skin or mucous membranes.
- The stop solution consists of diluted sulfuric acid, a strong acid. Although diluted, it still should be handled with care. It can cause burns and should be handled with gloves, eye protection, and appropriate protective clothing. Any spill should be wiped up immediately with copious quantities of water. Do not breath vapor and avoid inhalation.

13 TECHNICAL HINTS

- Do not interchange different lot numbers of any kit component within the same assay. Furthermore we recommend not assembling wells of different microtiter plates for analysis, even if they are of the same batch.
- Control samples should be analyzed with each run.
- Reagents should not be used beyond the expiration date stated on the kit label.
- Substrate solution should remain colorless until use.
- To ensure accurate results, proper adhesion of plate sealers during incubation steps is necessary.
- Avoid foaming when mixing reagents.
- Do not mix plugs and caps from different reagents.
- The assay should always be performed according to the enclosed manual.


14 GENERAL NOTES ON THE TEST AND TEST PROCEDURE

- This assay was produced and distributed according to the IVD guidelines of 98/79/EC.
- The guidelines for medical laboratories should be followed.
- Incubation time, incubation temperature and pipetting volumes of the components are defined by the producer. Any variation of the test procedure, which is not coordinated with the producer, may influence the results of the test. DRG can therefore not be held responsible for any damage resulting from incorrect use.

15 PUBLICATIONS / LITERATURE

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3. Langhorst, J. et al. Activated innate immune system in irritable bowel syndrome? *Gut* **56**, 1325–6 (2007).
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10. Shirin, T. et al. Antimicrobial peptides in the duodenum at the acute and convalescent stages in patients with diarrhea due to *Vibrio cholerae* O1 or enterotoxigenic *Escherichia coli* infection. *Microbes and infection / Institut Pasteur* **13**, 1111–20 (2011).
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12. Savilahti, E. M. et al. Intestinal defensin secretion in infancy is associated with the emergence of sensitization and atopic dermatitis. *Clinical and experimental allergy* **42**, 405–11 (2012).
13. Lahtinen, S. J. et al. Probiotic cheese containing *Lactobacillus rhamnosus* HN001 and *Lactobacillus acidophilus* NCFMR modifies subpopulations of fecal lactobacilli and *Clostridium difficile* in the elderly. *Age* **34**, 133–43 (2012).
14. Kalach, N. et al. Intestinal permeability and fecal eosinophil-derived neurotoxin are the best diagnosis tools for digestive non-IgE-mediated cow's milk allergy in toddlers. *Clinical chemistry and laboratory medicine* **51**, 351–61 (2013).

SYMBOLS USED

Symbol	English	Deutsch	Italiano	Español	Français
	European Conformity	CE-Konformitätskennzeichnung	Conformità europea	Conformidad europea	Conformité normes européennes
	Consult instructions for use *	Gebrauchsanweisung beachten *	Consultare le istruzioni per l'uso	Consulte las instrucciones de uso	Consulter les instructions d'utilisation
	<i>In vitro</i> diagnostic medical device *	<i>In-vitro</i> -Diagnostikum *	Diagnostica in vitro	Diagnóstico in vitro	Diagnostic in vitro
	Catalogue number *	Artikelnummer *	No. di Cat.	No de catálogo	Référence
	Batch code *	Chargencode *	Lotto no	Número de lote	No. de lot
	Contains sufficient for <n> tests *	Ausreichend für <n> Prüfungen	Contenuto sufficiente per "n" saggi	Contenido suficiente para <n> ensayos	Contenu suffisant pour "n" tests
	Temperature limit *	Temperaturbegrenzung *	Temperatura di conservazione	Temperatura de conservación	Température de conservation
	Use-by date *	Verwendbar bis *	Data di scadenza	Fecha de caducidad	Date limite d'utilisation
	Manufacturer *	Hersteller *	Fabbricante	Fabricante	Fabricant
	Caution *	Achtung *			
	For research use only	Nur für Forschungszwecke	Solo a scopo di ricerca	Sólo para uso en investigación	Seulement dans le cadre de recherches
<i>Distributed by</i>	Distributed by	Vertreiber	Distributore	Distribuidor	Distributeur
<i>Content</i>	Content	Inhalt	Contenuto	Contenido	Conditionnement
<i>Volume/No.</i>	Volume / No.	Volumen/Anzahl	Volume/Quantità	Volumen/Número	Volume/Quantité