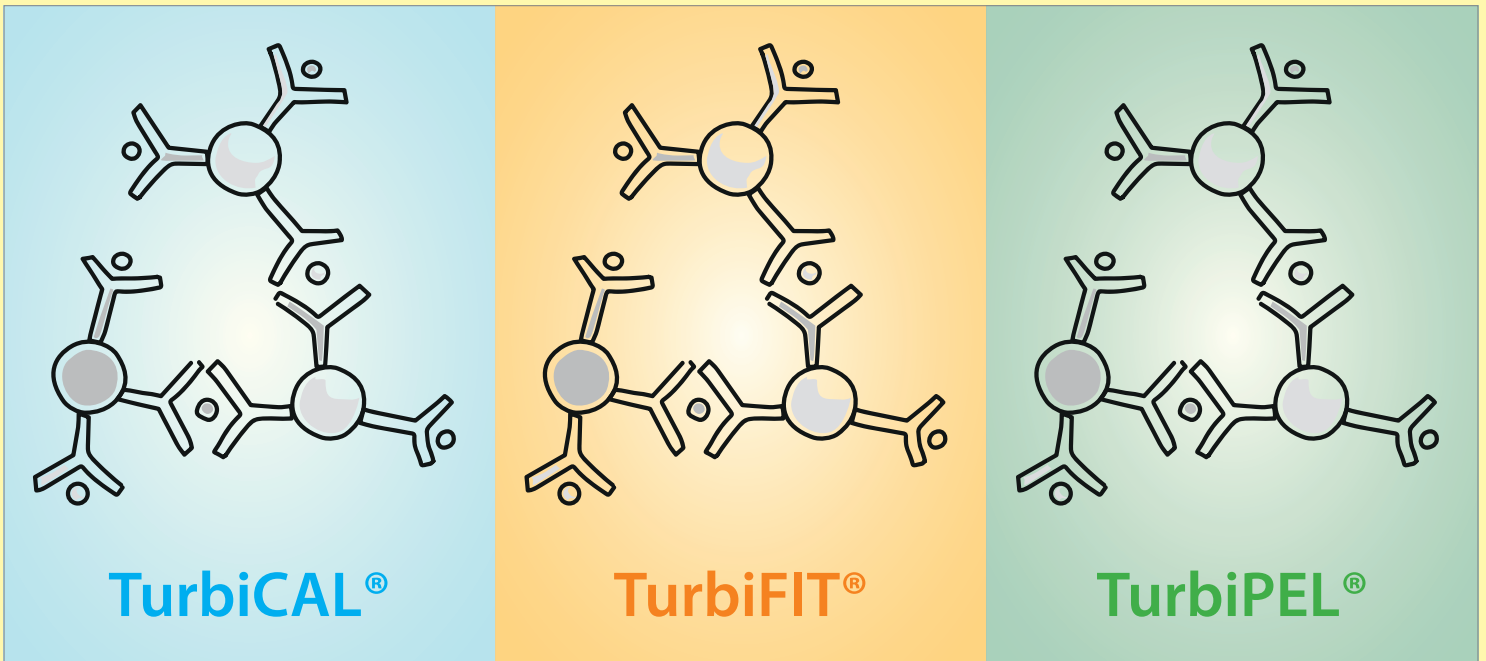


Turbidimetry by *IDK*[®]



Turbidimetric tests for the gastrointestinal biomarkers

- Calprotectin
- Haemoglobin
- Pancreatic Elastase

✓ *IDK*[®] **TurbiTUBE[®]**: 1 extraction buffer – 3 parameters

✓ Short time to results

✓ High throughput – continuous loading

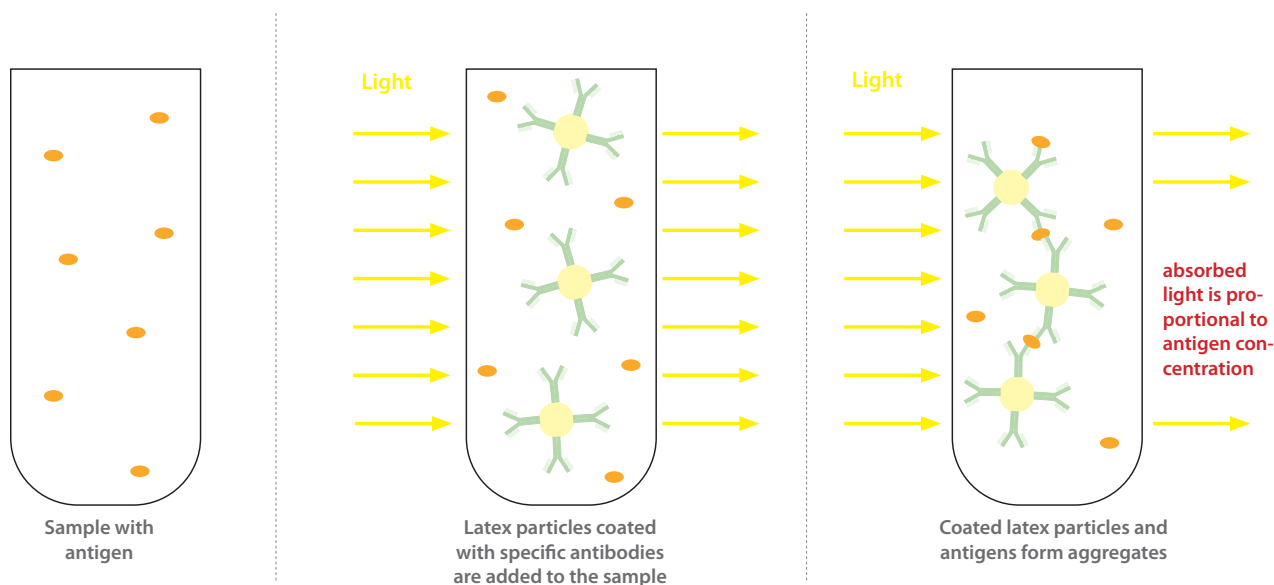


Turbidimetry

The assays **IDK® TurbiCAL®**, **IDK® TurbiFIT®** and **IDK® TurbiPEL®** are particle enhanced turbidimetric immunoassays – in short called **PETIA**. This type of immunoassay is based on a latex agglutination reaction, which allow really short incubation times. These assays are carried out using clinical chemistry analysers, allowing continuous loading and random-access workflow.

Latex particles coated with specific antibodies are mixed with the sample. Within a few minutes the antigen in the sample reacts with the antibodies coated to the latex particles. Due to this reaction aggregates are formed in the sample, which causes a turbidity.

The level of turbidity is measured by the absorbance of detection light at a certain wavelength, which is proportional to the amount of antigen in the sample. The more antigen is present in the sample the more aggregates are formed and more light is absorbed.



Supported Analysers

Immundiagnostik AG provides **application notes** for a large variety of clinical chemistry analysers. Those application notes contain information about the assay set-up on the specific clinical chemistry analyser. In addition, they provide the analyser specific performance characteristics of the assay as well as the application parameters.

In case that no application note for your analyser is available, we have a team of highly trained experts – our technical support team – which will work with you to bring the application to your analyser. But also, if we have the application note available for your analyser – if needed – our technical support team assists you with the set up of the assay.

TurbiCAL®

Abbott: Atinity c-series | Architect c1000, c4000, c8000, c16000

Awareness: Chemwell-T

Beckman Coulter: AU680

Binding Site: Optilite

Biosystems: A15

Diasys Diagnostic Systems GmbH: Respons 910

Erba: XL-180, XL-200

Mindray: BS-200, 200E

Ortho Clinical Diagnostics: Vitros 5600

Roche: Cobas c111 | Cobas C501 | Cobas C702

Siemens: ADVIA 1800 | ADVIA 2400 | Atellica

Tecom: TC220

Tokyo Boeki: Biolis i24, i30, i50

TurbiFIT®

Abbott: Atinity c-series | Architect c1000, c4000, c8000, c16000

Awareness: Chemwell-T

Beckman Coulter: AU680

Binding Site: Optilite

Biosystems: A15

Diasys Diagnostic Systems GmbH: Respons 910

Erba: XL-180, XL-200

Furuno: CA800

Mindray: BS-200, 200E

Ortho Clinical Diagnostics: Vitros 5600

Roche: Cobas c111 | Cobas C501

Tecom: TC220

Tokyo Boeki: Biolis i24, i30, i50

TurbiPEL®

Abbott: Atinity c-series | Architect c1000, c4000, c8000, c16000

Awareness: Chemwell-T

Binding Site: Optilite

Mindray: BS-200

Roche: Cobas c111

Siemens: Atellica

Tecom: TC220

Tokyo Boeki: Biolis i24, i30, i50

IDK® TurbiTUBE®

Stool sample collection

... completely relaxed



IDK® TurbiTUBE® combines our well known stool sample preparation device with a special extraction buffer for all IDK® turbidimetric assays. This allows the determination of all three turbidimetric parameters from one stool sample tube.

Use IDK® TurbiTUBE® for an easy, hygienic and precise stool sample collection and save time and money!

Important: IDK® TurbiTUBE® is not compatible with IDK® ELISAs (it is only compatible with our IDK® turbidimetric assays).

What you should know about IDK® turbidimetric products

All three IDK® turbidimetric assays show a good clinical correlation with the corresponding IDK® ELISA. They all come with 6 ready-to-use standards and 2 ready-to-use controls. The extracted stool samples are stable for up to 7 days at 2–8°C. They are available in different packaging sizes (100 tests, 200 tests, 800 tests) to fit the needs of every laboratory.

We recommend a calibration – using the full set of six calibrators – at least once a month or when the reagent lot is changed. The included controls should be run every day before starting the clinical routine to validate the stored calibration curve.

IDK® TurbiCAL®

IDK® TurbiCAL® determines the biomarker calprotectin in human stool samples. It is intended for the differential diagnosis between inflammatory bowel disease and the irritable bowel syndrome.

Furthermore, it is used for (therapy) monitoring of the intestinal inflammatory status of IBD patients.

IDK® TurbiCAL® is based on monoclonal antibodies and has a measuring range of at least 20–1500 µg/g.

		Turbidimetry		
		50 µg/g	50–200 µg/g	> 200 µg/g
ELISA	50 µg/g	17	0	0
	50–200 µg/g	4	13	0
	> 200 µg/g	0	4	22

Table 1: Comparison data between IDK® TurbiCAL® and IDK® Calprotectin ELISA (K 6927)

IDK® TurbiFIT®

IDK® TurbiFIT® determines the biomarker haemoglobin in human stool samples.

It is intended for detection of occult (hidden) blood and serves as an aid in colon cancer screening.

IDK® TurbiFIT® is based on polyclonal antibodies and has a measuring range of at least 1–100 µg/g.

		Turbidimetry	
		≤ 10 µg/g	> 10 µg/g
ELISA	≤ 10 µg/g	32	2
	> 10 µg/g	0	11

Table 2: Comparison data between IDK® TurbiFIT® and IDK® Hemoglobin ELISA (K 7816D)

IDK® TurbiPEL®

IDK® TurbiPEL® determines the biomarker human pancreatic elastase in stool samples.

It is intended for the diagnosis of an exocrine pancreatic insufficiency and for monitoring of the exocrine pancreas function.

IDK® TurbiPEL® is based on monoclonal antibodies and has a measuring range of at least 5–400 µg/g.

		Turbidimetry		
		< 100 µg/g	100–200 µg/g	> 200 µg/g
ELISA	< 100 µg/g	13	0	2
	100–200 µg/g	7	4	0
	> 200 µg/g	0	10	14

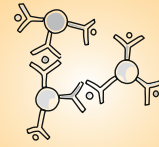
Table 3: Comparison data between IDK® TurbiPEL® and IDK® Pancreatic Elastase ELISA (K 6915)

Advantages

- **IDK® TurbiCAL® / IDK® TurbiFIT® / IDK® TurbiPEL®:**
Three gastro parameters from a single source
- Works with our smart and hygienic stool sample extraction device **IDK® TurbiTUBE®** using ONE special extraction buffer for all three assays
- Results within approx. **10 minutes** *
*exact time to result depends on used clinical chemistry analyser
- **High throughput** due to continuous loading and random access
- Reduced hands-on-time
- Works with any clinical chemistry analyser
- **Different package sizes** depending on the needs of the customer



TurbiCAL®



TurbiFIT®



TurbiPEL®

IDK® TurbiCAL®

Cat. No.:

TU1021.1 – 100 tests

TU1021.2 – 200 tests

TU1021.8 – 800 tests

IDK® TurbiFIT®

Cat. No.:

TU1031.1 – 100 tests

TU1031.2 – 200 tests

TU1031.8 – 800 tests

IDK® TurbiPEL®

Cat. No.:

TU1011.1 – 100 tests

TU1011.2 – 200 tests

TU1011.8 – 800 tests



IDK® TurbiTUBE®

Cat. No.: TU0091.A

Do you have questions or need support?
Do not hesitate to contact us at export@immundiagnostik.com.
We are happy to support you!



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