

Turbilatex®

Transferrin: a stable endogenous biomarker of gastrointestinal bleeding

Transferrin is an iron-binding protein present in blood, like haemoglobin. Its presence in faeces can be associated with bleeding from the upper or lower gastrointestinal tract.

Because transferrin **remains stable during its passage through the gastrointestinal tract**, it is a useful faecal marker of gastrointestinal bleeding and a complementary analyte for the detection of occult gastrointestinal bleeding.

Faecal transferrin testing provides a non-invasive approach to the assessment of gastrointestinal bleeding. Its detection can complement faecal occult blood testing (FOBT), providing additional information from the same stool sample.

Transferrin Turbilatex® is a turbidimetric immunological assay designed to detect and quantify human transferrin in faeces. The assay can be performed using the same sample collection vial as FOB Turbilatex®, facilitating the combined analysis of both markers.

When used together with FOB Turbilatex®, faecal transferrin may provide **complementary information to support the assessment of gastrointestinal bleeding associated with colorectal neoplasms**, combining two markers associated with gastrointestinal blood loss in a non-invasive testing approach.

Clinical significance & applications

- Faecal transferrin is a **stable marker of gastrointestinal bleeding** and can complement faecal occult blood testing (FOBT/FIT), as it is less susceptible to degradation during intestinal transit than haemoglobin.
- Combined measurement of faecal transferrin and haemoglobin has been investigated as an **additional tool for the detection of colorectal cancer and precancerous lesions**.



CAUSE

- Gastrointestinal bleeding releases blood proteins, including transferrin, into the intestinal tract.
- Transferrin remains stable during gastrointestinal transit.
- Its presence in faeces can be associated with upper or lower gastrointestinal bleeding.



EFFECT / CLINICAL RELEVANCE

- Detection of faecal transferrin is associated with gastrointestinal blood loss.
- Complementary marker for the detection of occult digestive bleeding.
- Combined with FOB testing, it may support the assessment of bleeding associated with colorectal neoplasms.

Your Laboratory Solutions for Transferrin

Turbidimetric Transferrin Assay (Latex-enhanced Immunoturbidimetry)

An immunoturbidimetric (or latex-enhanced) assay for transferrin, suitable for open-channel chemistry analysers:

- ✓ Cost-efficient option for labs already equipped with turbidimetric platforms.
- ✓ Good throughput and precision, offering quantitative measurement of transferrin.
- ✓ Provides flexible access to transferrin testing without exclusive immunoassay equipment.
- ✓ Compatible with existing automated analyser platforms and integrates into gastrointestinal testing panels/workflows.
- ✓ Other complementary assays available using the same stool sample tube: FOB-FIT, Calprotectin, and Pancreatic Elastase.

Transferrin Turbilatex® Combo is a non-invasive immunological test for the detection of faecal transferrin, complementing FOB testing with information on gastrointestinal blood loss. Combined with **FOB Turbilatex® Combo**, it may support the assessment of bleeding associated with colorectal neoplasms.

Product specifications

Sensitivity (%)	94.7 ⁽¹⁾
Specificity (%)	>99 ⁽¹⁾
Cut-off value (in dilution)	10 ng/mL
Cut-off value (in faeces)	1 µg/g
Main interferences	None ⁽²⁾

Cut-off value can be modified according to laboratory needs.

⁽¹⁾ Results obtained by comparison with similar products available on the market.

⁽²⁾ None identified in the analyses performed.

References	Description
TL-022TF100ED	Transferrin Turbilatex® Combo (kit 100 det.) ⁽³⁾
TL-022TF200ED	Transferrin Turbilatex® Combo (kit 200 det.) ⁽³⁾
MST-0019UR	Universal Turbilatex® Sample Collection Vial.

⁽³⁾ The number of determinations may vary depending on the analyser used. Optimized value for Biolis 24i.



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Quantification of faecal transferrin is a useful parameter in the evaluation of gastrointestinal bleeding, providing a complementary marker for the assessment of faecal blood loss.



Non-invasive diagnostic



All included. No proprietary analyser required



Low operational costs



Ease of use and interpretation



Immediate results

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