

**VA Vitassay**

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*identifying pathogens worldwide*

GENERAL CATALOGUE

# What is Vitassay?

Vitassay Healthcare, S.L.U. develops and distributes reliable and certified solutions for the early detection of different pathogens which cause infectious diseases in humans.

Our greatest asset is to offer a complete service for every customer to exceed their expectations and provide sustainable value. We use all our technical and human resources to provide comprehensive advice across the international market, always under strict quality control and care in all our processes.

Vitassay diagnostic products are the result of the joint effort in research and continuous improvement with experience of our R&D and innovation.

**Our challenge: to continue developing new accurate, reliable and friendly products with the environment, to facilitate and improve people's quality of life.**



## Products for diagnosis



### p. 3 Rapid Test

Fecal (bacteria, parasites & virus)  
Tumor markers  
Urine  
Respiratory



**(All Vitassay Rapid Test with Positive and Negative Control available on demand)**



### p. 10 Real-Time PCR Kits

Tropical diseases  
Respiratory (bacteria, virus)  
Fecal (bacteria, parasites & virus)  
Fungi  
Sexual diseases  
Antimicrobial resistance  
Transplant & Meningitis

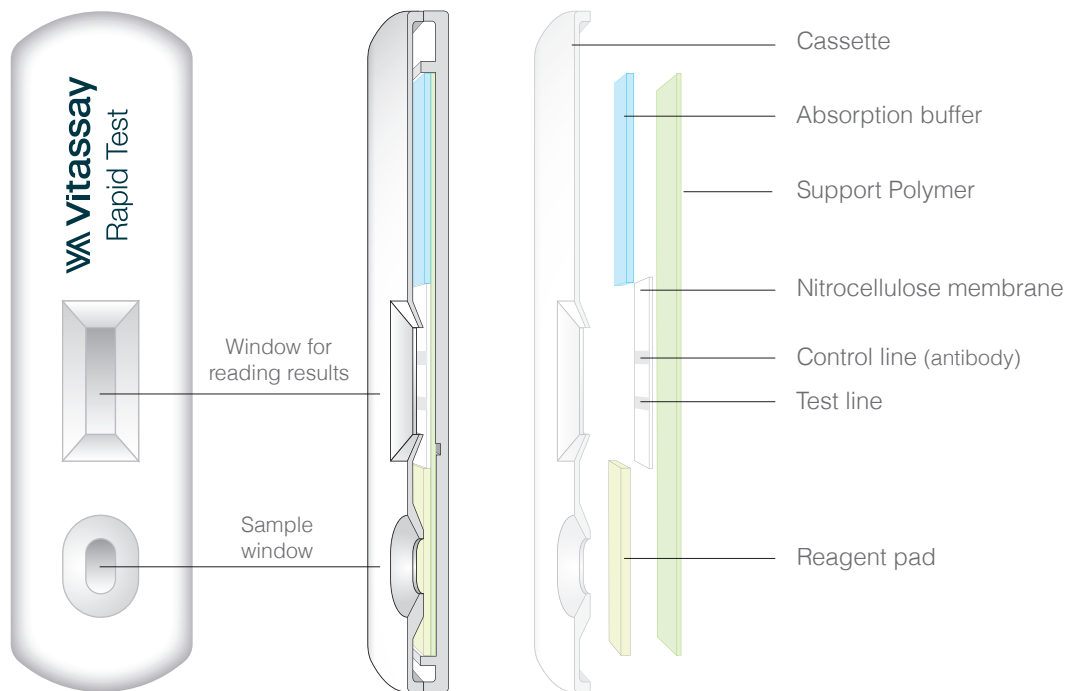


### p. 12 Turbidimetry Kits

FOB  
Calprotectin  
Transferrin  
Elastase  
H. pylori

# Rapid Test

Technology that provides reliability, speed and precision in small dimensions.



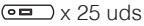
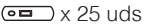
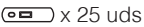
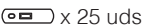
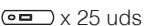

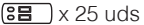
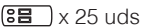
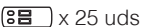
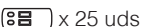
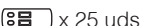

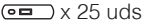
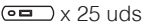
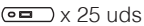
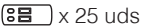

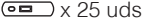
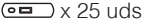
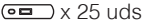
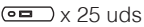
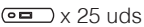
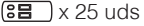




Vitassay Healthcare, S.L.U. offers products intended and designed to facilitate the work of health personnel. Devices for professional use that are helpful in the diagnosis of a variety of diseases.

The high sensitivity and specificity attached to its ease of use and speed (only two minutes to prepare the sample and 10 minutes to get the result) make our Rapid Test an indispensable product.



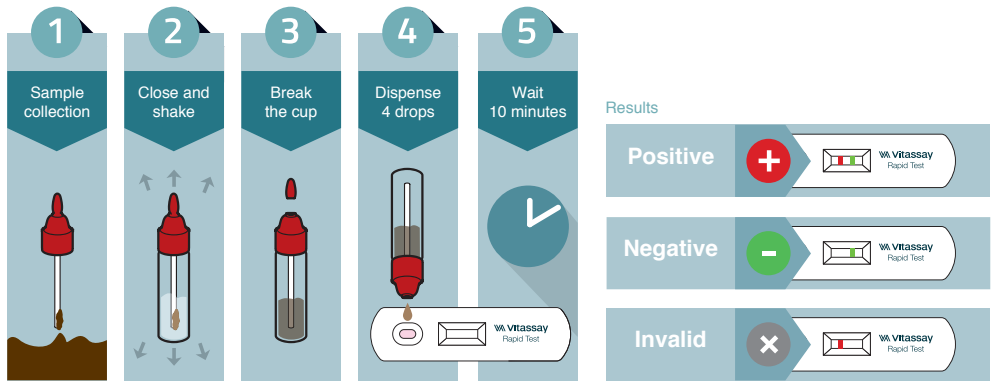
A wide range of specific and combined Test: 1, 2, 3, 4 or 5 different strips on one device.

# Fecal. References

■ Bacteria	Single Card	7355020	 x 25 uds	H. pylori	
		7355026	 x 25 uds	E. coli	
		7355028	 x 25 uds	Campylobacter	
		7355029	 x 25 uds	Salmonella	
		7355022	 x 25 uds	Clostridium difficile antigen GDH	
			7355030	 x 25 uds	Salmonella typhi
		Double Card	7455021	 x 25 uds	H. pylori + Transferrin
			7455023	 x 25 uds	Clostridium difficile Toxin A + B
			7455027	 x 25 uds	EHEC VT1 + VT2
			7455031	 x 25 uds	Salmonella typhi + paratyphi
			7455032	 x 25 uds	Yersinia enterocolitica O:3 + O:9
		Multitest	7715024	 x 10 uds	Clostridium difficile GDH + Toxin A + B (3 in 1)
	■ Parasites	Single Card	7355033	 x 25 uds	Crypto
			7355034	 x 25 uds	Giardia
			7355036	 x 25 uds	Entamoeba
		Double Card	7455035	 x 25 uds	Crypto + Giardia
		Multitest	7715037	 x 10 uds	Crypto + Giardia + Entamoeba (3 in 1)
■ Virus		Single Card	7355009	 x 25 uds	Adenovirus
	7355008		 x 25 uds	Rotavirus	
	7355011		 x 25 uds	Astrovirus	
	7355013		 x 25 uds	Norovirus	
	7355018		 x 25 uds	Enterovirus	
		Double Card	7455010	 x 25 uds	Rotavirus + Adenovirus
			7455014	 x 25 uds	Norovirus GI + GII
			7455015	 x 25 uds	Rotavirus + Norovirus
		Multitest	7715012	 x 10 uds	Rotavirus + Adenovirus + Astrovirus (3 in 1)
			7715016	 x 10 uds	Rotavirus + Adenovirus + Norovirus (3 in 1)
			7715017	 x 10 uds	Rota + Adeno + Astro + Noro (4 in 1)
			7715050	 x 10 uds	Rota + Adeno + Astro + Noro + Entero (5 in 1)

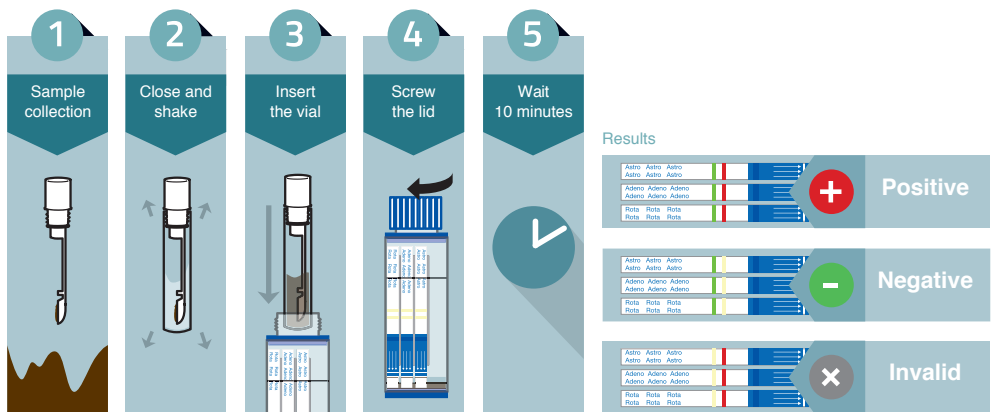
# Fecal. Process

## Single/Double card process










The presence of the green line in the control zone (C) indicates that sufficient volume is added; proper flow is obtained and serves as an internal control for the reagents.

## Three/Four in one process



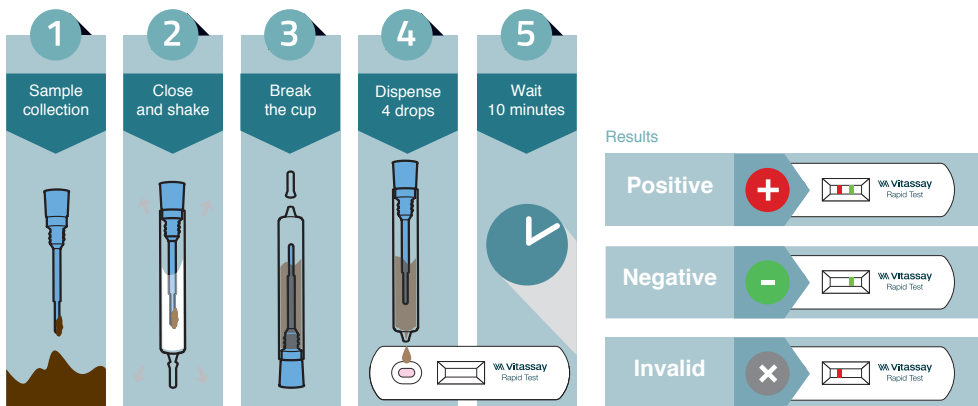
The intensity of the red-coloured test line in the result line region (T) will vary depending on the concentration of antigens in the specimen.

# Tumor markers. References

Single Card	7355001	 x 25 uds	FOB
	7355004	 x 25 uds	Calprotectin
	7355046	 x 25 uds	Lactoferrin
Double Card	7455002	 x 25 uds	FOB 50 + 200
	7455003	 x 25 uds	FOB + Transferrin
	7455005	 x 25 uds	Calprotectin 50 + 200
	7455006	 x 25 uds	Calprotectin + Lactoferrin

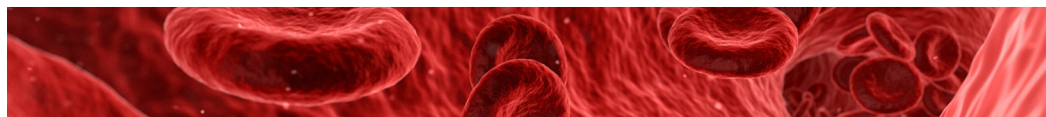
# Tumor markers. Process

## Single/Double card process






## You know...

...colorectal cancer is one of the most prevalent cancers worldwide and the lifetime risk is almost 6%.

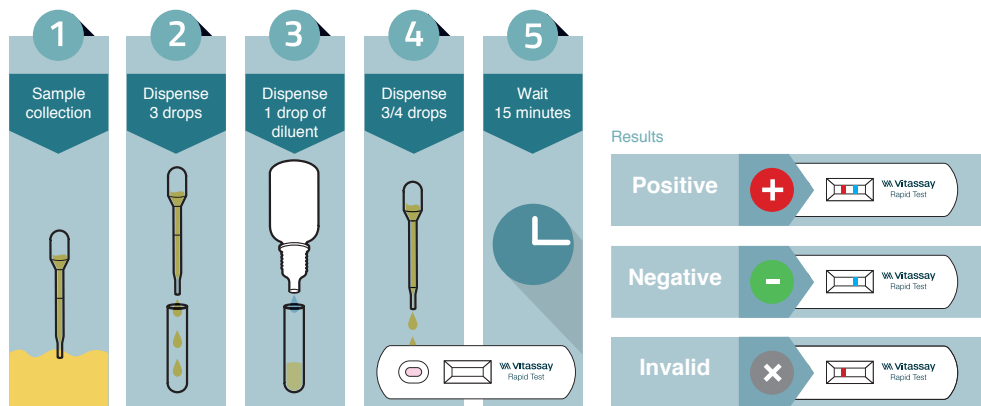


# Urine. References

Single Card	7355047	 x 25 uds	Strep. pneumoniae
	7355044	 x 25 uds	Legionella
Double Card	7455049	 x 25 uds	Strep. pneumoniae + Legionella

# Urine. Process

## Single/Double card process











## You know...

...urine specimens should be collected in standard containers.  
 The samples can be stored at room temperature (15-30°C/59/86°F)  
 if assayed within 24 hours of collection.  
 Alternatively, specimens may be stored at 2-8°C (35.6-46.4°F)  
 for up to 14 days or at 10°C to -20°C (14°F to -4°F)  
 for longer periods before testing.

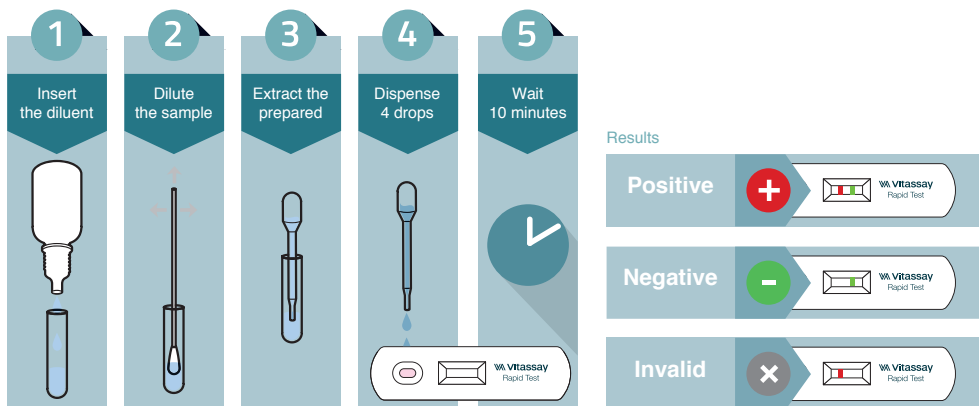


# Respiratory. References

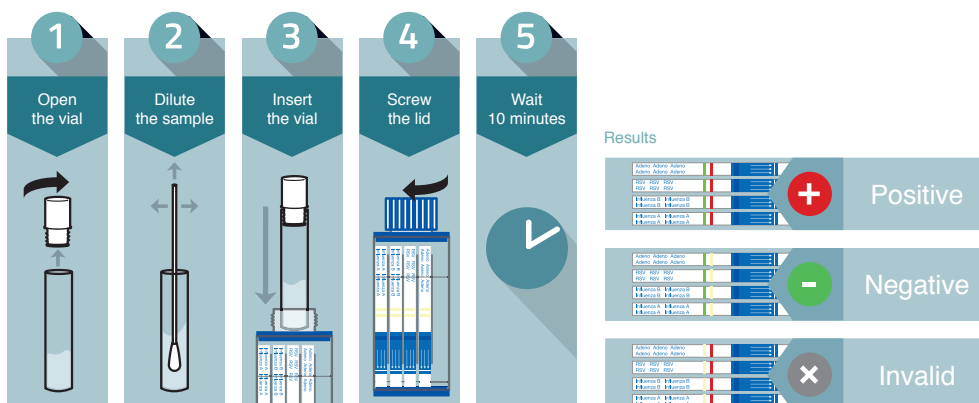
Single Card	7355038	 x 25 uds	Strep A
	7355039	 x 25 uds	RSV
	7355040	 x 25 uds	Adenovirus Resp.
	7355052	 x 25 uds	SARS-CoV-2
Double Card	7455041	 x 25 uds	RSV + Adenovirus Resp.
	7455042	 x 25 uds	Influenza A + B
Multitest	7715043	 x 10 uds	Influenza A + B + RSV + Adenovirus (4 in 1)
	7715053	 x 10 uds	SARS-CoV-2 + Influenza A + B + RSV + Adenovirus (5 in 1)

# Respiratory. Process

## Single/Double card process



## Three/Four in one process



# Real-Time PCR Kits

Vitassay qPCR Kits are ready-to-use Real-Time PCR assays designed to amplify and detect pathogen specific DNA or RNA.



Vitassay qPCR Kits contains in each well enzymes, buffer, primers and probes as well as an internal control in a lyophilized format. The kits include a positive and a negative control.

Identification of pathogen DNA or RNA occurs by the use of target/specific primers and fluorescent/labelled hydrolysis probes which hybridize conserved regions in the genomes of the different pathogens.

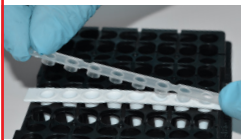
## PROCESS



1.  
Resuspend



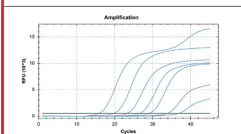
2.  
Add the sample



3.  
Fit the cover



4.  
Place in the thermal cycler

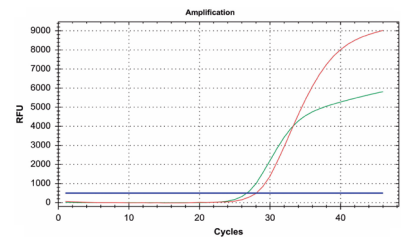


Interpret results (\*)

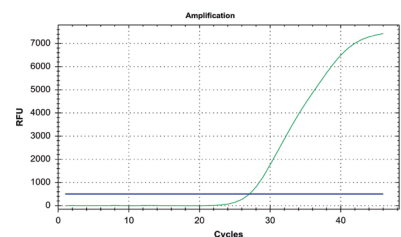
## FEATURES

- Ready to use lyophilised premix for PCR or RT-PCR
- Compatible with the majority of real-time PCR detection systems
- One protocol for all kits
- Transport and storage at room temperature
- Shelf-Life: 24 months
- Validated according to ISO13485 and CE marked

(\*) Positive result.



(\*) Negative result.



## Vitassay qPCR Colour Compensation

Vitassay qPCR Colour Compensation is intended for use as a calibrator method to compensate the bleed-over fluorescence (crosstalk phenomenon) to guarantee a proper interpretation of multiplex assays results.

Multiplex Real Time PCR assays allow the simultaneously amplification and detection of two or more different targets in each PCR reaction, saving time and sample volume in comparison to monoplex assays. As a consequence, the emission spectra of the different dyes can overlap and cause the “crosstalk” effect. In this phenomenon the fluorescence signals from a dye are collected in adjacent channels, leading to false positive results.

Vitassay qPCR Colour Compensation is a ready-to-use test which contains in each well all the necessary components in a stabilized format (specific primers/probes, dNTPS, buffer, enzymes) necessary for running eight different replicate singleplex Real Time PCR reactions.

**Reference:** 7051044 Vitassay qPCR Colour Compensation 5 x 8-well strip, low profile



### You know...

**...the quality of the qPCR test depends on the quality of the sample;  
proper DNA from clinical specimens must be extracted.  
Unsuitable collection, storage and/or transport of specimens may give  
false negative results.**

# qPCR. References

All references including 32 (4x8) reactions per kit.

■ Respiratory	Bacteria	7041020	<i>Bordetella pertussis + B. parapertussis + B. holmesii</i>
		7041019	<i>L. pneumophila</i>
		7041048	MTBC / NTM ( <i>M. tuberculosis</i> )
		7041049R	Primary Atypical Pneumonia <sup>(1)</sup> ( <i>C. pneumoniae, M. pneumoniae &amp; L. pneumophila</i> )
	Virus	7041021	Flu A + Flu B
		7041027	Flu A + Flu B + RSV
		7041022	RSV A + RSV B
		7041031	Type I / Flu
		7041032	Type II / Flu
		7041033	Panel I / Respiratory viruses
		7041023	Bocavirus
		7041024	Metapneumovirus
		7041028	AMB (Adenovirus, Metapneumovirus and Bocavirus)
		7041025	Parainfluenza 1/3 + 2/4
		7041039	MERS-CoV
		7041040	HCoV (Coronavirus 229E, NL63, OC43 and HKU1)
		7091046	SARS-CoV-2 <sup>(2)</sup>
		7091052	FLU + RSV + SARS-CoV-2 N1/N2 <sup>(3)</sup>
		7091054	SARS-CoV-2 + Flu A + Flu B <sup>(3)</sup>
		7091055	SARS-CoV-2 + UK Variant <sup>(3)</sup>
		7091056	SARS-CoV-2 Variants · S gene <sup>(3)</sup> (E484K, K417N, K417T and N501Y)
		7091058	SARS-CoV-2 Variants II · S gene (P681R, L452R and E484Q) <sup>(3)</sup>
		7091061	SARS-CoV-2 Variants III · S gene (Q954H) and <i>ORF1ab</i> gene (A2710T) <sup>(3)</sup>
	7091060R	SARS-CoV-2 ( <i>ORF1ab, E &amp; N</i> ) <sup>(1)</sup>	
	7041041	Rhinovirus & Enterovirus	
	Fungi	7041026	<i>Pneumocystis jirovecii</i>
■ Tropical diseases	7041005	Zika + Dengue + Chikungunya	
	7041006	Dengue 1+2+3+4	
	7041001	Chikungunya	
	7041002	Dengue	
	7041003	Zika	
	7041004	West Nile Virus	
	7041038	Japanese Encephalitis	
	7041050	Malaria 5 ( <i>P. falciparum, P. vivax, P. ovale, P. malariae, P. knowlesi</i> )	
	7041053	MAYV (Mayaro virus)	

■ Fecal	Bacteria	7041010	<i>Campylobacter + Salmonella + Shigella/EIEC</i>
		7041011	<i>Campylobacter + Salmonella + Yersinia enterocolitica</i>
		7041007	<i>H. pylori</i>
		7041034	<i>H. pylori</i> ClariRes
		7041008	<i>Clostridium difficile</i>
		7041009	<i>Clostridium difficile</i> toxins A/B
		7041042	<i>Clostridium difficile</i> toxins A+B
		7041059	EHEC, EPEC & EIEC
		Parasites	7041012
	7041029		<i>Dientamoeba fragilis</i>
	7041030		<i>Blastocystis hominis + Dientamoeba fragilis</i>
	Virus	7041013	Adenovirus
		7041014	Astrovirus
		7041015	Norovirus GI
		7041016	Norovirus GII
		7041017	Rotavirus
		7041018	Sapovirus
	■ Sexual diseases	7041035R	Sexually Transmitted Infections (*) ( <i>Neisseria gonorrhoeae, Chlamydia trachomatis, Mycoplasma genitalium, Trichomonas vaginalis, Ureaplasma urealyticum, Ureaplasma parvum</i> and/or <i>Mycoplasma hominis</i> )
7041036		Genital ulcer (Herpes virus 1, Herpes virus 2, <i>Treponema pallidum</i> )	
7041037		HPV (16+18)	
7041051		Vaginosis ( <i>C. albicans, G. vaginalis</i> and/or <i>T. vaginalis</i> )	
7041043		Vancomycin Resistance	
■ Antimicrobial resistance	7041057	Carbapenemase-generating Enterobacteriaceae	
	7041045	Viral Meningitis (HSV-1, HSV-2 & VZV)	
■ Transplant & Meningitis	7041047	BK & JC Virus	

(\*) : Research Use Only

## FOB Turbidimetry Kit

For quantitative measurement of haemoglobin in human faeces (Fecal Occult Blood) using automated immunochemical analyzers.

Colorectal cancer is the second leading cause of illness and death in Western world. The screening with faecal occult blood tests is based on the concept that important target colonic neoplasm, such as early-stage cancer and large adenomatous polyps. Colorectal cancer is also associated with local acute inflammatory reaction being visualized, in some cases, by the white cell neutrophil scanning.

Haemoglobin is the iron-containing oxygen-transport protein in the red blood cells of all vertebrates that may be leaked into gastrointestinal tract and then discharged with the faeces in gastrointestinal bleeding diseases. When gastrointestinal blood is lost, the stool will contain a combination of intact or nearly intact haemoglobin, intact heme and heme-derived porphyrins in amounts that depend on the site and amount of bleeding and the transit time through the gut.

FOB Turbidimetry tests detect intact or nearly intact human haemoglobin, being a very specific technique for detecting loss of blood from the lower intestine.

### FOB Turbidimetry Kit. Specifications

Sensitivity (%)	96 <sup>(1)</sup>
Specificity (%)	> 99 <sup>(1)</sup>
Cut-off value (in dilution)	50 ng/mL
Cut-off value (in faeces)	5 µg/g
Main interferences	None

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

<sup>(1)</sup> Results obtained against a similar reference product in the market

### References

7115001	FOB Turbidimetry Kit
7115001-100V	FOB vial x 100pc



## You know...

...turbidimetry reagents are stable through the expiration date printed on the sealed pouch if the products have been preserved refrigerated at the proper temperature (2-8°C) until use.

# Calprotectin Turbidimetry Kit

For quantitative measurement of calprotectin in human faeces using automated immunochemical analyzers.

Calprotectin is a 36KDa neutrophil cytosolic protein with antimicrobial properties. Increased concentration of this protein in stool samples is tightly associated to bowel inflammation. This protein remains stable in faeces for up to 7 days at room temperature, turning it into an ideal disease marker.

VITASSAY Calprotectin Turbidimetric assay allows the quantitative determination providing sensitive, accurate and reproducible measures of human calprotectin (hCp) in faeces specimens. Test results are obtained in a very short time.

The assay is based on antigen-antibody agglutination reactions between the antigen contained in the sample and the anti-antigen antibodies coated on polystyrene latex particles.

Such agglutination is measured as an increase in absorbance proportional to the quantity of antigen contained in the sample.

## Calprotectin Turbidimetry Kit. Specifications

Sensitivity (%)	94 <sup>(1)</sup>
Specificity (%)	> 99 <sup>(1)</sup>
Cut-off value (in dilution)	500 ng/mL
Cut-off value (in faeces)	50 µg/g
Main interferences	None

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

*<sup>(1)</sup> Results obtained against a similar reference product in the market*

## References

7115002	Calprotectin Turbidimetry Kit
7115001-100V	Calprotectin vial x 100pc

## You know...

**... some studies established equal or higher 50µg/g faeces are not considered indicative of intestinal inflammation. Values between 50-200µg/g can be representative of diseases related to intestinal inflammation. Patients who are in this range should be reevaluated and may be susceptible to invasive clinical analysis.**

# Transferrin Turbidimetry Kit

Simple, non-invasive and highly sensitivity assay for quantitative detection of transferrin in human stool samples.

Transferrin is an iron-transporting protein that synthesised mainly in the liver and is present at a concentration of 2.0-3.0g/L in normal serum.

The blood concentration of Transferrin is 1-2% that haemoglobin, but Transferrin is highly stable and is considered to be a more sensitive indicator of gastrointestinal bleeding than haemoglobin, even when the bleeding takes place in the upper part of the gastrointestinal track and the antigen suffer a long intestinal retention time.

### Transferrin Turbidimetry Kit.

#### Specifications

Sensitivity (%)	95 <sup>(1)</sup>
Specificity (%)	> 99 <sup>(1)</sup>
Cut-off value (in dilution)	10 ng/mL
Cut-off value (in faeces)	1 µg/g
Main interferences	None

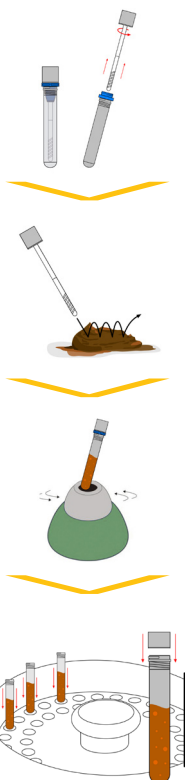
*(Cut-off value can be modified according to laboratory needs.)*

<sup>(1)</sup> Results obtained against a similar reference product in the market

#### References

7115004	Transferrin Turbidimetry Kit
7115001-100V	Transferrin vial x 100pc

### Sample preparation:



## You know...

**...all Vitassay Turbidimetry kits use the same vial, which can be loaded directly into the analyzer.**



# Elastase Turbidimetry Kit

It is a fast, effective and reliable test to accurately quantify the amount of pancreatic elastase in stool samples.

Human Pancreatic Elastase (E1) is measured to monitorize pancreatic exocrine functioning, revealing a pancreatic exocrine insufficiency when this marker shows reduced levels. The stability of this marker in the gastrointestinal tract, become in a perfect target to follow diseases associated to pancreatic exocrine disruption.

Elastase Turbidimetry Kit is a non invasive method based on monoclonal antibodies-antigen specific recognition.

## Elastase Turbidimetry Kit.

### Specifications

Sensitivity (%)	95 <sup>(1)</sup>
Specificity (%)	> 99 <sup>(1)</sup>
Cut-off value (in dilution)	2 µg/mL
Cut-off value (in faeces)	200 µg/g
Main interferences	None

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

*<sup>(1)</sup> Results obtained against a similar reference product in the market*

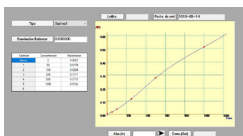
### References

7115005	Elastase Turbidimetry Kit
7115001-100V	Elastase vial x 100pc

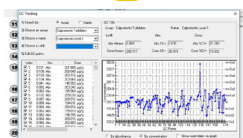
## PROCESS



Specimen preparation



Calibration curve



Quality control



Analytical procedure

Interpretation  
of results

## You know...

**...values in the range between 100-200 µg/g should be considered as mild to moderate pancreatic insufficiency, and they should be reviewed by the specialist.**

## H. pylori Turbidimetry Kit

Assay for the quantitative detection of *Helicobacter pylori* in human stool samples that helps in the search for gastrointestinal problems.

*Helicobacter pylori* is a spiral gram-negative, microaerobic human pathogen. *H. pylori* infection is strongly related with many gastroduodenal diseases, atrophic gastritis, mucosa associated lymphoid tissue (MALT) lymphoma and nocardia gastric cancer.

*H. pylori* colonize approximately 50% of world's population, but the prevalence of *H. pylori* is of high quality in developing countries. Risk factors for *H. pylori* infection varies widely by geographic area, age, race and socioeconomic status.

*H. pylori* Turbidimetric assay is based on antigen-antibody agglutination reactions between the antigen contained in the sample and the anti-antigen antibodies coated on polystyrene latex particles. Such agglutination is measured as an increase in absorbance proportional to the quantity of antigen contained in the sample.

### **H. pylori Turbidimetry Kit.**

#### **Specifications**

Sensitivity (%)	88 <sup>(1)</sup>
Specificity (%)	> 98 <sup>(1)</sup>
Sensitivity limit	0.5 ng/mL
Main interferences	None

<sup>(1)</sup> Results obtained against a similar reference product in the market

#### **References**

7115003	<i>H. pylori</i> Turbidimetry Kit
7115003-100V	<i>H. pylori</i> vial x 100pc



**...*H. pylori* infection affects more than half of the adult population worldwide and is strongly related with many peptic ulcer diseases and gastric cancer.**

# Vitassay Healthcare



## Our Purpose

Provide a simple and complete process for the detection of pathogens causing infectious diseases.



## Our Target

Being a company of reference and global reach, specializing in products for diagnosis, able to offer a complete service and personal attention. Expanding panel products, and developing new diagnostic techniques consistently applied.



## Our Strengths

Personalized service with total availability. Continuous innovation in all our manufacturing processes, care, research and quality. Production as: each client is unique. Human resources specialist.



- Rapid Test
- Real Time PCR Kits
- Turbidimetry Kits



*Our aim is to become a reference company, specialised in solutions for rapid diagnosis, capable to offer a complete service and personalized attention.*

**Vitassay**

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