

Faeces Collection Device



TESTS	
Feces/Rectal	
<input type="checkbox"/> Feces Culture Bacterial (Salmonella, Shigella, Campylobacter)	Source: <input type="checkbox"/> Genit
<input type="checkbox"/> Feces Culture E Coli 0157	<input type="checkbox"/> Tricho
<input type="checkbox"/> Feces Culture Yersinia	<input type="checkbox"/> Herpe
<input type="checkbox"/> Feces Culture Vibrio	<input type="checkbox"/> Nelsse
<input type="checkbox"/> Feces WBC/Leukocyte Test	<input type="checkbox"/> Bacter
<input type="checkbox"/> Feces Culture YEAST	<input type="checkbox"/> Genita
<input type="checkbox"/> Feces Examination TB/AFB	
<input checked="" type="checkbox"/> Feces Occult Blood Diagnostic	
<input type="checkbox"/> Feces Occult Blood Screen	
<input type="checkbox"/> Feces Ova and Parasite Exam	Source: <input type="checkbox"/> Woun
<input type="checkbox"/> Feces Microsporidium Exam	
<input type="checkbox"/> Giardia Antigen (Referrals)	
<input type="checkbox"/> C difficile Toxin Assay Fecal	
<input type="checkbox"/> Neisseria Gonorrhoeae Culture (Rectal Swab)	
Respiratory	
Source: <input type="checkbox"/> Respiratory Culture	
<input type="checkbox"/> Respiratory Culture	
<input type="checkbox"/> Respiratory Culture	
<input type="checkbox"/> Respiratory Culture	
<input type="checkbox"/> Respiratory Culture	
<input type="checkbox"/> Respiratory Culture	
<input type="checkbox"/> Respiratory Culture	
<input type="checkbox"/> Respiratory Culture	
<input type="checkbox"/> MRSA Culture	
<input type="checkbox"/> Neisseria Culture	
Tissue	
Source: <input type="checkbox"/> Urine Culture C&S	
<input type="checkbox"/> Tissue Culture Aerobic	
<input type="checkbox"/> OR	



Fe-Col®

Faeces Collection Device



Collection of faeces for laboratory diagnostics can be a real challenge due to the presence of wash down toilets in more than 95% of the households. There are two available solutions for the collection of faeces:

1. Home-made solutions such as:

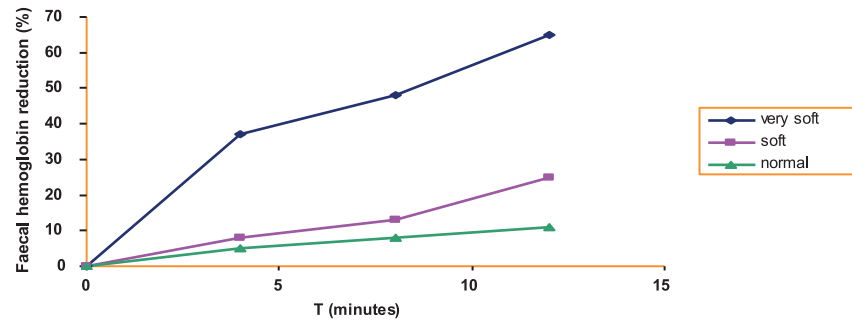


2. Environmental impact solutions such as plastic collection containers

Faecal occult blood test (FOBT)

In addition to the practical challenges of faeces collection, there are also some pre-analytical aspects to be considered that can influence the results of fecal diagnostics. As shown by Alhquist *et al.*¹ contact of faeces with toilet water can reduce the concentration of fecal hemoglobin and therefore result in a false-negative FOBT. Imafuku *et al.*² also showed a negative effect of toilet sanitizers and detergents on a FOBT.

Influence of water on hemoglobin concentration in faeces



The reduction of the concentration hemoglobin in normal, soft and very soft faeces in contact with water during 12 minutes.

Microbiological and immunological faeces testing

As known, the results of microbiological testing are also influenced by contact of faeces with toilet water. Detergents influence the fixative property of the collection fluid that is used in the triple faeces test. Moreover, microbiological contamination by carry-over from one person to the other using the same toilet needs to be prevented.

Test	For
Triple Faeces Test (TFT)	Parasitological diagnostics: Giardia Lamblia, Entamoeba histolytica, Dientamoeba fragilis, etc.
Faeces Culture (bacterial)	Bacteriological diagnostics: Salmonella, Shigella, Campylobacter, EHEC, H. pylori, C. difficile, etc.
Faeces Culture (viral)	Viral diagnostics: Rotavirus, Norovirus, etc.
Calprotectin	M. Crohn, Colitis Ulcerosa
Elastase	Pancreatic insufficiency

A device for collecting faeces needs to:

1. provide easy sampling
2. reduce pre-analytical errors
3. be flushable and biodegradable

Fe-Col® meets these requirements. Fe-Col® is a band made of bleach-free, flushable and biodegradable paper that can be slid over the toilet seat. After defecation and sampling, Fe-Col® can be torn up and be flushed down the toilet since the product follows the world-wide INDA/EDANA guidelines for flushability.³



References

1. Alhquist *et al.* *Ann Intern Med.* 1988;108(4):609-612
2. Imafuku *et al.* *Clin Chim Acta.* 1996;253(1-2):51-9
3. www.edana.org