



SUGAR ABSORPTION TEST (SAT)

DETERMINATION OF LACTULOSE AND / OR MANNITOL IN URINE

Enzymatic Method

Suitable for all analyzers – 60 tests

Product insert with instructions for automated and manual procedures

Incl. Lactulose & Mannitol

Standard and Control

With Lactulose & Mannitol
Solution Procedure.

SUMMARY

CLINICAL BACKGROUND AND ASSAY PRINCIPLE

Testing intestinal permeability by differential sugar absorption tests is becoming increasingly popular in the diagnosis and follow-up of small intestinal diseases.

The principle of these tests is based on simultaneously oral administration of a disaccharide and a monosaccharide after which the concentrations of these two sugars are measured in 5h urine excretion. These tests give more reliable and reproducible results than the one marker tests, for example the D-xylose test, in predicting the degree of enteropathy.

We use the sugar absorption test, containing lactulose and mannitol with sucrose added as osmotic filter.

SAMPLE MATERIAL

Collect 5 hours urine specimens after oral consumption of the sugars in a container with 0.5 ml 20% chlorohexidine as a preservative.

LINEARITY

Lactulose assay: 0.10 - 16.0 mmol/l

Mannitol assay: 0.10 - 20.0 mmol/l

EXPECTED VALUES

After oral administration of the sugars:

Lactulose / Mannitol ratio: 0.00 - 0.10

Lactulose / Creatinin: 3.4 – 25.2 mmol/mol

Mannitol / Creatinin : 443 - 1264 mmol/mol

QUALITY CONTROL

Pooled urine of known concentrations or commercially available control materials with established values are recommended for control of precision and accuracy.

PRODUCTS



Products	Product no.	Quantity
Sugar Absorption Test Set	2858	12 – 60 tests
Lactulose Reagent Set	2858-L	12 – 60 tests
Mannitol Reagent Set	2858-M	12 – 60 tests



NOTES

1. For in vitro diagnostic use only.
2. For professional use only.
3. Always contact INstru**chemie** for the complete product insert and latest edition.
4. Printed in the Netherlands, July 2015 – version 3.0