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

<table>
<thead>
<tr>
<th>Products</th>
<th>Product no.</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sugar Absorption Test Set</td>
<td>2858</td>
<td>12 – 60 tests</td>
</tr>
<tr>
<td>Lactulose Reagent Set</td>
<td>2858-L</td>
<td>12 – 60 tests</td>
</tr>
<tr>
<td>Mannitol Reagent Set</td>
<td>2858-M</td>
<td>12 – 60 tests</td>
</tr>
</tbody>
</table>

NOTES
1. For in vitro diagnostic use only.
2. For professional use only.
3. Always contact INstruchemie for the complete product insert and latest edition.

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