Actim Pancreatitis is a unique point-of-care test to reliably detect or rule out acute pancreatitis. Thanks to the easy-to-use urine dipstick test, testing can be performed at the bedside and the results are available in just 5 minutes.

Acute pancreatitis is a common inflammatory condition associated with high morbidity, mortality, and hospitalization costs. Early treatment is critical to avoid complications, yet the nonspecific symptoms make diagnosis challenging.

Based on the most accurate biomarker available, Actim Pancreatitis is the only test that can identify acute pancreatitis at any phase of inflammation. As a result, severe pancreatitis is diagnosed early, patients can be treated efficiently, and unnecessary treatment and costs are avoided.
The Actim Pancreatitis test is based on unique, highly specific antibodies that detect the pancreatic enzyme trypsinogen-2 in urine. Trypsinogen-2 is the optimal biomarker for acute pancreatitis; it is present throughout pancreatic inflammation, from the beginning to days after symptoms started.

As Actim Pancreatitis detects trypsinogen-2 concentrations up to 100,000 µg/l and as low as 50 µg/l, it can reliably detect both advanced symptomatic acute pancreatitis as well as early asymptomatic pancreatitis.

**ACTIM PANCREATITIS: KEY FACTS**
- Reliably rules out acute pancreatitis with a simple urine test
- Can be used at any stage of disease
- Easy-to-use one-step dipstick test
- Gives test results at the bedside in just 5 minutes
- No laboratory resources or sample processing needed
- Individually packed dipsticks are economic, hygienic, and convenient

**POST-ERCP**
Pancreatitis is not always symptomatic, but acute pancreatitis will develop in approximately 10% of patients.

**HOW TO USE ACTIM PANCREATITIS**

1. Activate the test
2. Interpret results
3. 5 min

**FIGURE 1.**
1. & 2. Activate the test
3. Interpret results
HOW ACTIM PANCREATITIS HELPS

There is currently no golden standard test for diagnosing acute pancreatitis. Typically, diagnosis is based on the relatively nonsensitive biomarkers amylase and lipase. However, amylase starts to decline after just 1–3 days and is not specific to the pancreas. While lipase is more specific, its sensitivity as an indicator is less than optimal. Diagnosis can also be established on CT scans, but they are challenging, expensive, and involve exposure to radiation.

Actim Pancreatitis is the first and only dipstick test that enables diagnosis of acute pancreatitis on the spot – without a need for sample processing or laboratory equipment. Rapid and reliable diagnosis allows timely treatment and reduces diagnostic costs.

Actim Pancreatitis is highly sensitive in detecting pancreatitis: it can identify even those patients who would likely be missed with amylase and lipase tests (Table 1).

Thanks to its extremely high (99 %) negative predictive value (NPV), Actim Pancreatitis can reliably rule out pancreatitis even in asymptomatic patients. For this reason, negative test results do not have to be verified with CT scans or other tests (Table 2).

Pancreatitis resulting from endoscopic retrograde cholangiopancreatography (ERCP) can also be excluded, allowing low-risk patients to be discharged soon after the procedure.

**TABLE 1.** Actim Pancreatitis surpasses both lipase and amylase testing in detecting and ruling out pancreatitis with 100% sensitivity. (Jang et al., 2007)

<table>
<thead>
<tr>
<th>Test type</th>
<th>Sensitivity (%)</th>
<th>Specificity (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actim Pancreatitis</td>
<td>100</td>
<td>96</td>
</tr>
<tr>
<td>Lipase 3N</td>
<td>53</td>
<td>99</td>
</tr>
<tr>
<td>Amylase 3N</td>
<td>41</td>
<td>95</td>
</tr>
</tbody>
</table>

**TABLE 2.** Actim Pancreatitis is a highly sensitive and specific screening tool for acute pancreatitis. With a high NPV, Actim pancreatitis is able to confidently determine patients that are not experiencing pancreatitis, also among those at risk of post-ERCP acute pancreatitis.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Subjects</th>
<th>AP</th>
<th>Sens. (%)</th>
<th>Spec. (%)</th>
<th>PPV (%)</th>
<th>NPV (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kemppainen et al. 1997</td>
<td>500</td>
<td>53</td>
<td>94</td>
<td>95</td>
<td>68</td>
<td>99</td>
</tr>
<tr>
<td>Kylanpää-Bäck et al. 2000</td>
<td>525</td>
<td>45</td>
<td>96</td>
<td>92</td>
<td>54</td>
<td>99.6</td>
</tr>
<tr>
<td>Kylanpää-Bäck et al. 2002</td>
<td>237</td>
<td>29</td>
<td>93</td>
<td>92</td>
<td>63</td>
<td>99</td>
</tr>
<tr>
<td>Chen et al. 2005</td>
<td>165</td>
<td>67</td>
<td>90</td>
<td>86</td>
<td>81</td>
<td>92</td>
</tr>
<tr>
<td>Jang et al. 2007</td>
<td>191</td>
<td>19</td>
<td>100</td>
<td>96</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Post-ERCP-patients**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Subjects</th>
<th>AP</th>
<th>Sens. (%)</th>
<th>Spec. (%)</th>
<th>PPV (%)</th>
<th>NPV (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kemppainen et al., 1997 (quantitative test, 6h post operation)</td>
<td>106</td>
<td>11</td>
<td>81</td>
<td>97</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sankaralingam et al., 2007 (dipstick test, 1h post operation)</td>
<td>29</td>
<td>5</td>
<td>100</td>
<td>91</td>
<td>66</td>
<td>100</td>
</tr>
<tr>
<td>Sankaralingam et al., 2007 (dipstick test, 4h post operation)</td>
<td>29</td>
<td>5</td>
<td>100</td>
<td>96</td>
<td>80</td>
<td>100</td>
</tr>
</tbody>
</table>

**A HIGH NEGATIVE PREDICTIVE VALUE (NPV)** helps to avoid unnecessary and costly CT scans.
Selected references

The full reference list can be found on our website.

CONTACT AND ORDERING INFORMATION

Because **TRYPsinogen-2 LEVELS Stay Elevated For Several Days**, the Actim Pancreatitis test can be performed even if a patient doesn’t immediately contact a doctor.

**Ordering information**

<table>
<thead>
<tr>
<th>Test Kit</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actim Pancreatitis 20 test kit</td>
<td>32732ETAC</td>
</tr>
<tr>
<td>Actim Pancreatitis 10 test kit</td>
<td>32731ETAC</td>
</tr>
<tr>
<td>Actim Pancreatitis Controls</td>
<td>32700ETAC</td>
</tr>
</tbody>
</table>

**The test kit contains all necessary materials and can be stored at room temperature.**

CONTACT US

Medix Biochemica
Tel. +358 9 547 680
Fax +358 9 505 3441
medix@medixbiochemica.com

Disclaimer: Product availability and/or labeling may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

© 01/2017 Medix Biochemica. All rights reserved. Actim is a registered trademark of Medix Biochemica.