Actim PROM

RAPID TEST FOR DETECTING PREMATURE RUPTURE OF FETAL MEMBRANES

Actim PROM is a reliable test for quickly and easily detecting premature rupture of fetal membranes (PROM) in all patients.

PROM is the most common identifiable cause of preterm births and a major cause of maternal and fetal morbidity. Correct PROM diagnosis is important to guide treatment and to minimize complications. However, PROM symptoms differ between patients, which makes diagnosis challenging.

With Actim PROM, even clinically invisible ruptures in the fetal membranes are rapidly and accurately detected. Unlike any other rapid PROM test, Actim PROM gives reliable results even in the presence of blood or other interfering substances, making the test suitable for all women with suspected PROM. Correct PROM diagnosis allows proper patient care, helps to avoid unnecessary treatment, and reduces costs.





sk www.medixbiochemica.com



HOW **ACTIM PROM** WORKS

The Actim PROM rapid test is based on highly specific and unique monoclonal antibodies that bind to the insulinlike growth factor binding protein-1 (IGFBP-1) which is present in the amniotic fluid throughout pregnancy (Figure 2). IGFBP-1 is produced by decidual cells and is the major protein in amniotic fluid. When fetal membranes rupture amniotic fluid leaks into the vagina, where it is not normally found (Figure 1). The presence of amniotic fluid can be detected with the Actim PROM test.

Actim PROM is specially opimized to be so sensitive that it detects even the microruptures that are clinically

invisible (even less than 1 µl of amniotic fluid). These tiny ruptures cannot be detected with traditional methods, but are clinically relevant as they can induce delivery, cause infections, and threaten the health of both mother and child.

Thanks to Actim PROM's **specificity** to the amniotic fluid forms of IGFBP-1, **test can be completed even in the presence of blood and other bodily fluids, infections, and medical products.** The high specificity and sensitivity minimize false negative and false positive results, making Actim PROM superior in diagnostic accuracy.

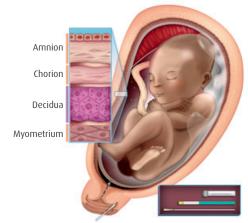


FIGURE 1. Actim PROM identifies membrane rupture through a simple vaginal swab sample.

TABLE 1. Actim PROM has the highest sensitivity, specificity, and accuracy in PROM diagnosis. (Erdemoglu & Mungan, 2004)

	Sensitivity %	Specificity %	Ассигасу %
Actim PROM test	97	97	97
Nitrazine test	97	16	56
AFI < 80 mm	94	91	92

TABLE 2. When also patients with bleeding are included, Actim PROM surpasses AmniSure-test. (Marcellin et al. 2011)

	Sensitivity %	Specificity %	PPV %	NPV %
Actim PROM	97.5	97.4	97.5	97.4
AmniSure	95.0	94.8	95.0	94.8

 TABLE 3. Clinical evidence of accurate PROM diagnosis with Actim PROM.

Reference	Number of patients	Sensitivity %	Specificity %	PPV %	NPV %
Rutanen et al., 1996	130	100	95	93	100
Jain and Morris, 1998	100	100	89	76	100
Akercan et al., 2005	87	100	92	84	100

 Reliably detects PROM even before any clinically visible signs

ACTIM PROM: KEY FACTS

- Can be used at any gestational age
- Easy-to-use one-step dipstick test
- Gives test results at the bedside in just 5 minutes, with sampling completed in seconds – with or without speculum
- Test results are not affected by blood, intercourse, semen, urine, vaginal medications, lubricants, bathing products, or infections

HOW **ACTIM PROM** HELPS

Traditionally, diagnosis of PROM is based on a variety of clinical symptoms. As the symptoms can be very different between patients, PROM diagnosis is often difficult, inaccurate, and time-consuming.

Rapid and reliable PROM diagnosis with Actim PROM enables safer and easier patient care while saving valuable resources.

ACTIM PROM SAVES MONEY, LIVES, AND TIME

- It ensures proper and fast care for the right patients.
- It helps avoid unnecessary use of medications and their side-effects.
- · It prevents unnecessary labor inductions.
- It reduces unnecessary hospital stays and patient transfers.
- Reliable results gives expecting mothers peace of mind.

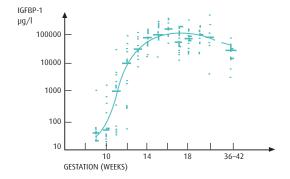
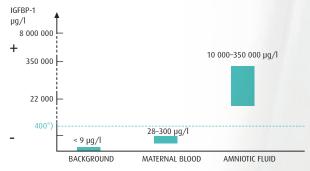


FIGURE 2. IGFBP-1 concentration in amniotic fluid rises quickly in early pregnancy and remains high until delivery. (Wathen et al. 1993)



*) Measuring range of the Actim PROM test is 400–8 000 000 μ g/l. 400 μ g/l corresponds to 25 μ g/l in extracted sample.

FIGURE 3. Actim PROM's detection range (400–8 000 000 μ g/l.) covers all clinically relevant concentrations from the smallest microruptures to the highest levels. The test has been designed to be specific to amniotic fluid only, enabling to gain correct results from patients otherwise almost impossible to diagnose.

Actim PROM is a trusted option in over

70 COUNTRIES,

and it is mentioned in several national treatment guidelines.

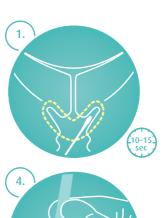
PREMATURE RUPTURE OF MEMBRANES

Premature rupture of membranes (PROM) is a serious pregnancy complication, in which fetal membranes break before the onset of labor. Once the membranes break, both the mother and the child are at high risk of infection and other complications.

PROM can occur at any gestational age, and it eventually leads to delivery, causing approximately one third of preterm labor events. PROM causes complications in 2–20% of deliveries and is associated with one fifth of perinatal deaths.



HOW TO USE ACTIM PROM



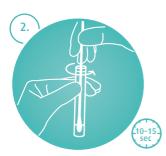








FIGURE 2.

- Collect sample with or without speculum
- 2. Extract Specimen
- 3. & 4. Activate the test
- 5. Interpret results



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

THE ACTIM 1NGENI

instrument can be used to digitally interpret test results. As Actim 1ngeni automatically saves and interprets test results, data traceability is improved and more time can be devoted to patient care.



Selected references

- Erdemoglu E and Mungan T. Significance of detecting insulin-like growth factor binding protein-1 in cervicovaginal secretions: Comparison with nitrazine test and amniotic fluid volume assessment. Acta Obstet Gynecol Scand (2004) 83: 622–626.
- Gaucherand P et al. Comparative study of three vaginal markers of the premature rupture of membranes. Acta Obstet Gynecol Scand (1997) 76:536–540
- Guibourdenche J et al. Rapid detection of insulin-like growth factorbinding protein-1 and foetal fibronectin in cervico-vaginal secretions to diagnose premature membrane rupture.
 Ann Clin Biochem (1999) 36:388–390.
- Jain K and Morris PG. A clinical study to evaluate the usefulness of the MAST test in diagnosing pre-labour rupture of membranes. J Obstet Gynaecol (1998) 18:33–36.
- Kubota T and Takeuchi H. Evaluation of insulin-like growth factor binding protein-1 as a diagnostic tool for rupture of the membranes. J Obstet Gynecol Res (1998) 24: 411–417.
- Marcellin, L. et al. Comparison of two bedside tests performed on cervicovaginal fluid to diagnose premature rupture of embranes. Journal de gynecologie, obstetrique et biologie de la reproduction (2011) 40:651-656.

- 7. Palacio et al. BMC Pregnancy and Childbirth (2014), 14:183
- Ragosch V et al. Insulin like growth factor binding protein 1 (IGFBP-1) und fetales Fibronectin in der Diagnostik eines vorzeitigen Blasensprunges. GebFra (1996) 56:1–6.
- Rutanen E-M et al. Evaluation of a rapid strip test for insulin-like growth factor binding protein-1 in the diagnosis of ruptured fetal membranes. Clinica Chimica Acta (1996) 253: 91–101.
- Rutanen E-M et al. Measurement of insulin-like growth factor binding protein-1 in cervical/vaginal secretions: comparison with the ROMcheck Membrane immunoassay in the diagnosis of ruptured fetal membranes. Clinica Chimica Acta (1993) 214: 73–81.
- 11. Rutanen E-M. Insulin-like growth factors in obstetrics. Curr Opin Obstet Gynecol (2000) 12:163–168.
- Wathen NC et al. Levels of insulin-like growth factor-binding protein-1 increase rapidly in amniotic fluid from 11 to 16 weeks of pregnancy. J Endocrinol (1993) 137:R1–R4.
- Yang J et al. Vaginal bleeding during pregnancy and preterm birth. Am J Epidemiol (2004) 160:118–125.

The full reference list can be found on our website.

COMBINE ACTIM PROM WITH ACTIM PARTUS

The rapid and reliable test for detecting the patients at elevated risk of preterm labour, for more confident clinical decision-making.

CONTACT US

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

Ordering information	
Actim PROM 20 test kit	30832ETAC
Actim PROM 10 test kit	30831ETAC
Actim PROM 1 test kit	30830ETAC
Actim PROM Controls	30800ETAC
Actim 1ngeni Instrument	19100AC
Actim PROM 1ngeni 10 test kit	30831RETAC



