



Test for ACR

-early detection

-early warning

Why measure Albumin/Creatinine Ratio (ACR)?

Key facts

- Ready-to-use ACR Test Cartridges, three tests in one cartridge
- 5:35 minutes test time
- Sample volume: 3.5 µL human urine
- Simple sampling procedure
- Measuring range:
Albumin: 5.0 – 200.0 mg/L
Creatinine: 1.5 – 30.0 mmol/L
ACR: 0.1 – 140.0 mg/mmol
- Very good precision: CV < 10%, expected in the field
- Very good correlation to automated lab method and PoC method
- Kit size: 15 tests, separately packed cartridges
- Afinion™ ACR Control: 2 levels, ready-to-use
- Calibrated against:
ERM®-DA470 reference preparation (Albumin)
SRM 914 (Creatinine)

Albumin excretion rate in urine indicates:

- Incipient diabetic nephropathy
- Risk of cardiovascular diseases
- Elevated blood pressure
- Pre-eclampsia

Microalbuminuria is the earliest stage of diabetic nephropathy, a serious complication of diabetes mellitus.

The urine albumin level varies with diuresis, whereas creatinine levels correlate well with diuresis as creatinine is almost entirely filtered by the glomeruli. Measuring the Albumin/Creatinine Ratio (ACR) will therefore give a more accurate evaluation of the albumin excretion rate. ADA/ECLM recommends testing at least once per year; some prefer more frequent testing.

Normal: < 2.5 mg/mmol
Microalbuminuria: 2.5 – 25 mg/mmol
Diabetic nephropathy: > 25 mg/mmol

The Afinion™ ACR assay is a test for determination of low urine albumin levels, corrected for variable urine volume by simultaneously measuring the creatinine concentration. The Albumin/Creatinine Ratio (ACR) is then calculated.

The kidney



Afinion™ ACR Assay System

The Afinion™ AS100 Analyzer, a small bench-top multi-assay analyser, and the Afinion™ ACR Test Cartridge constitutes the Afinion™ ACR Assay System.

The Analyzer is easily operated from the touch screen. The user requirements for simplicity, security and convenience are met by the automated analysis of the Test Cartridge.

A simple sampling procedure, no manual calibration, the unique in-process error detection system and no chemistry handling make the Afinion™ ACR Assay System suitable for point of care testing.

The Afinion™ ACR Test Cartridge contains all the reagents necessary for simultaneous determination of albumin, creatinine and ACR.

The Afinion™ ACR Assay System gives you reliable analytical results on-the-spot! Patient management can be carried out with confidence.

Afinion™ ACR – time-saving for you and your patient



1. Collect sample



2. Replace Sampling Device



3. Insert Cartridge



4. Record result



The Afinion™ Analyzer

Simple, fast and convenient

The Afinion™ AS100 Analyzer is easily operated and the unique ACR Test Cartridge with integrated sampling device ensures simple, safe and convenient sampling.

Simply place the cartridge in the Analyzer and the result is displayed in a few minutes. Afinion™ AS100 Analyzer gives you reliable results, conveniently available when you need it!

The new Afinion™ ACR provides a simple, fast and convenient point of care test for the simultaneous determination of albumin, creatinine and ACR.

Referanser:

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POINT OF CARE CENTER



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