Helvetica Health Care

healthcare at the speed of life

GENERAL HEALTH

BioNexia®

The BioNexia® microalbumin test is an immune-chemical lateral flow test. It serves the semi-quantitative detection of small quantities of albumin in urine.

The steady expulsion of small quantities of albumin with the urine can be the first sign of kidney damage. In the healthy kidney albumin is usually glomerular fi ltrated and tubular reabsorbed, so that it is hardly detectable in urine. With a damaged kidney this process is disordered. The expulsion of albumin in the range of 20 - 200 mg/L is characterized as microalbuminuria. With the BioNexia microalbumin test such small concentrations are already securely captured.

Especially with diabetics positive results could point to a beginning diabetic nephropathy. Without appropriate therapeutic intervention it will lead for a high percentage of patients to a progression of this complication. The expulsion of albumin increases continuously (= macroalbuminuria) and ends finally after several years in a renal failure, which makes dialysis or a kidney transplant inevitable. In the USA and Europe diabetes is the main cause for terminal kidney failure. A study (DEMAND), accomplished world-wide, shows that approx. 41% of type-2 diabetics exhibit a microalbuminuria. The frequency of microalbuminuria increases with age, blood pressure and diabetes duration, and is the rarer, the better the blood sugar is adjusted. The high prevalence of the illness reveals how important a microalbuminuria annual screening is for diabetics.

For type-1 diabetics the fi rst measurements are usually recommended 5 years after initiation of the illness. For type-2 diabetics the screening should start directly with the fi rst outset of the diagnosis, since it is unknown, how long the illness already exists.

The diagnosis of a microalbuminuria is also of special importance, since it can be not only the fi rst sign of a beginning nephropathy but also an indicator for an increased risk for cardiovascular illnesses for type-2 diabetics.

An increase of albumin expulsion can be due, beside damages of renal structures, to additional factors of infl uence like physical activity, infections of the urinary tract, high blood pressure, heart insuffi ciency or surgical interferences. If the increased albumin expulsion disappears after removal of these factors, it concerns only a transient albuminuria without any pathological reason.

Do you have any question or would you be interested to receive our quotation?
Please contact us by e-mail (sales@helveticahealthcare.com)
or by phone (+41 22 534 94 54)

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Since the albumin expulsion can vary substantially from day to day, at least 2 of 3 urine samples, which were collected over a period of 3-6 months, should show increased albumin values, before a microalbuminuria is diagnosed.

Instruction for use (PDF) **Product-Flyer (PDF)**

ART. CODE	NAME	SIZE	CE MARKED
BM-ALB-3S	**BioNexia Micro Albumin Dipsticks**	20 dipsticks	**YES**

The BioNexia®CRP ratio Test is a semiquantitative rapid test for the detection and the monitoring of CRP levels in whole blood samples. The cut-off of detection of the test is 10 µg/ml.

CRP (C-reactive protein) is an acute-phase-protein. It is a classical marker that can be used to detect an inflammation reaction in the body. CRP is synthesized in the liver and is induced by proinflammatory cytokines, especially Interleucin-6. Via the plasma, CRP is delivered to the sites of inflammation, where it actively contributes to the innate immune response. Systemic inflammation is usually accompanied by an increase of CRP concentration in blood. Especially bacterial infections, sterile tissue damage e.g. after surgical procedures, trauma or extreme physical stress, tumors especially in the metastasing stage, some autoimmune diseases as well as malignant systemic diseases (Hodgkin's and Non-Hodgkin's Lymphoma) can induce a CRP increase. For diagnostic purposes, CRP is often used to differentiate between viral and bacterial infections, as the increase in CRP is more enhanced in bacterial infections. CRP is also frequently used to monitor the therapeutic effect of e.g. an antibiotic treatment.

Instruction for use (PDF) **Product-Flyer (PDF)**

ART. CODE	NAME	SIZE	CE MARKED
BM-CRP-2S	**BioNexia CrP ratio Dipsticks (10,40,80 ng/ml)**	10 tests	**YES**

Link to the webpage

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