

# MicroalbuPHAN<sup>®</sup>

Test strips for semi-quantitative determination of microalbuminuria



# MicroalbuPHAN<sup>®</sup>

## For objective / visual evaluation

### Clinical significance

Microalbuminuria diagnosed in time can **prevent several health issues**:

- Kidney damage
- Diabetic complications
- Cardiovascular diseases
- Risks affecting pregnant patients with diabetes

### Main features

- Screening test
- **Easy to use**
- **Economical** solution
- **Measurement of microalbuminuria** and proteinuria using one single pad
- **Measurement of creatinine** for more precise evaluation of microalbuminuria



### Technical benefits

- **Simultaneous measurement** of two related parameters: albumin and creatinine
- **Wide measurement range**: from 0.01 g/l to 5 g/l
- **Quick results** (within 1 min.)

### Principle

Test strips **MicroalbuPHAN<sup>®</sup>** are designed for semi-quantitative measurement of microalbuminuria. In favour of a higher precision and more reliable evaluation, the strips carry a Creatinine pad too, besides the Albumin pad. Measuring principle of urine albumin content is based on the color change of an acid-base indicator, while that of urine creatinine content is based on the reaction of creatinine with 3,5-Dinitrobenzoic acid in alkaline medium.

### Interpretation of results

**Albumin**<sup>1</sup> – Normal concentration of albumin in urine is <0.02 g/l. Microalbuminuria is indicated in case of results 0.02–0.3 g/l

**Creatinine**<sup>2</sup> – Normal concentration of creatinine in urine is 2.2 -26.5 mmol/l

**Albumin-to-Creatinine Ratio**<sup>3</sup> – Microalbuminuria is indicated in case the ratio of albumin to creatinine is 3.4–33.9 mg/mmol

<sup>1</sup> Burtis, C.A., Ashwood E.R.: Tietz Textbook of Clinical Chemistry 3<sup>rd</sup> Edition, W.B. Saunders Comp., Philadelphia (1999)

<sup>2</sup> Needleman, S.B., Porvaznik, M., Ander, D.: J. Forensic Sci. 37, 1125 (1992)

<sup>3</sup> Sacks, D.B., Bruns, D.E., Goldstein, D.E., Maclaren, N.K., McDonald, J.M., Parrott, M: Clin. Chem. 48, 436 (2002)

Cat No	Product	Qty
URPH0020	MicroalbuPHAN <sup>®</sup>	50 strips
URPH0029	MicroalbuPHAN <sup>®</sup> LAURA	50 strips

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