# Urinalysis

HUMAN offers an extensive line of urine test strips (for visual or automated reading) and a system for low to medium throughput laboratories. Test strips ranging from 1 parameter (glucose) up to 13 parameter strips (including microalbumin plus creatinine) are available.

# Combilyzer System

**Consumables**

| REF | Description |
|---|---|
| 22132 | Combina 13 (100 tests) |
| 18144/5 | Printing paper (5 pcs) |

| REF | 17600 |
|---|---|

## Combilyzer[13]

**System for small to medium volume laboratories**

- System solution for Combina 13 strips
- Photoelectric colorimetry test principle
- Throughput: 60 samples/hour (standard mode)
  120 samples/hour (fast mode)
- Calculates albumin-to-creatinine ratio
- Flags for abnormal results
- Onboard storage of 1,000 results
- Conventional, arbitrary and SI units
- Barcode reader for Combina 13 strips and samples
- Built-in thermal printer
- Serial port for unidirectional connection with LIS port for external printer
- Onboard service & system diagnose tools

| REF | 22132 |
|---|---|

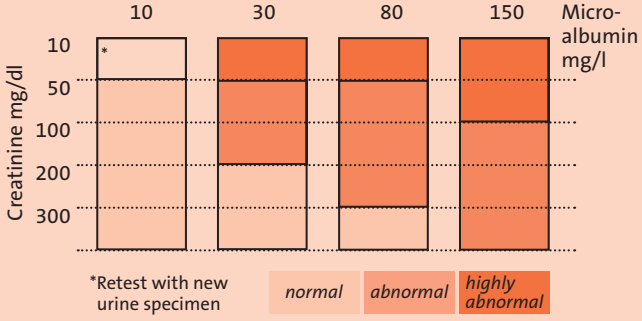
## Combina 13

**Comprehensive urinary profile including microalbumin and creatinine**

- Strip for testing ascorbic acid, bilirubin,blood, creatinine, glucose, ketones, leukocytes, microalbumin, nitrite, pH, protein, specific gravity, urobilinogen
- Specially suited for first time urine testing – no need for timed collection
- Albumin-to-creatinine ratio automatically calculated by Combilyzer[13]
- For visual and automated reading with Combilyzer[13]
- Semi-quantitative visual reading for all parameters at 60 seconds

**Risk Factor Albumin-to-Creatinine Ratio**

Urinary excretion of microalbumin indicates kidney damage – often found in patients with diabetes and hypertension – and is a recognized risk factor for progression of kidney and cardiovascular disease.

Parallel measurement of creatinine and albumin to diagnose microalbuminuria makes collection of 24-hour urine samples obsolete, as the albumin-to-creatinine ratio allows to correct variations in diuresis.

**Albumin-to-Creatinine Ratio**