



# SM-01 SWEAT ANALYSER

## PC COMPATIBLE

The sweat examination's development revolutionized the rate of the Cystic Fibrosis' clarification. The SM-01 sweat analyser is a trustable testing instrument for the CF's diagnosis. Equally it can

be used in laboratories, on wards of hospitals, clinics, in doctor consulting rooms.

The instrument can be used in any life period. The examination's result is trustable also in newborn already older than 48 hours, before 3-4 weeks' age although the collection of an adequate amount of sweat is often a hard task, since the babies get born with undeveloped sweat glands. The less sweat has to be collected, the earlier can be the successful measurement done.

The SM-01 instrument needs 0,5 µl sweat for the measurement, what is unique in the world. Thanks to the small sampling amount and the probes' size this instrument is successfully used for the testing of newborn babies and premature babies too.

The SM-01 sweat examiner measure with the determination of the sweat's all ion content happening on the principle of the conductivity. The testing process happens in two steps:

1. During iontophoresis the Pilocarpine reagent induces sweating. For the iontophoresis used current's intensity and its time can be set. The iontophoresis' current runs smoothly in favour of avoiding the suddenly arising irritation.
2. Sweat collection and measurement happen with the help of measuring probe, the forming sweat we catch up and we measure it in closed system. With the instrument the measurement can be done in two ways:
  - Basic measurement, the measurement result can be read down from the instrument's display.
  - Measurement interlaced with memory's use. The SM-01 is computer compatible. With the computer's help patient identifiers can be written into SM-01 instrument, the instrument stores to these identifiers the measured results. The results read into the computer can be stored and lab report can be printed.

The SM-01 instrument has got a so-called test function, during which the instrument controls its own functionality and measurement accuracy. For the test measurement probe doesn't have to be used and neither plus apparatus, so the control doesn't require plus investment and it neither increases the operating cost.

#### Technical data:

|                        |   |
|------------------------|---|
| Measurement range:     | 0-200 mmol/l NaCl (sweat's all ion content)<br>0-133 mmol/l Cl (informative data) |
| Iontophoresis time:    | 2 min   |
| Sweat collection time: | 5 min   |
| Sample amount:         | 0,5 µl  |
| Measurement accuracy:  | 1 %   |
| Supply voltage:        | 4x1,2V NiMh   |
| Size:                  | 200 x 150 x 62,8 mm   |
| Serial output:         | USB- B type and virtual RS232 connection possibility                              |



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