ICST Corporation

Don't you care about dry mouth?

Quantifying the dryness of the oral mucosa in just two seconds.

Oral moisture checker Mucus

CE 0120

Moisture content checker based on bioelectrical impedance analysis (BIA)*

Mucus

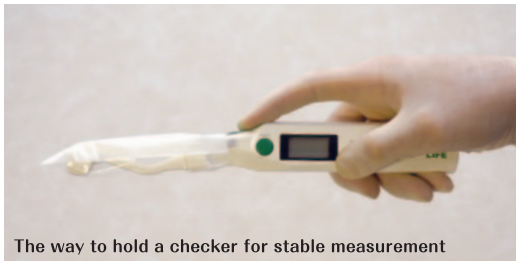
Medical Device License Number: 22200BZX00640000

The measurement principle of "Mucus" is to determine the value of impedance by using resonance frequency of the alternating current with electro static capacitance sensor (comb-like electrode sensor), by way of sensor cover (polyethylene film). The displayed measurement value is the relative value to reflect the impedance, and it is not the actual water content.

Mucus enables easy measurement that takes only two seconds.

Five points to take note of:

1. Patients feel easy because the measurement takes just 2 seconds.
2. The moisture content is quantified and indicated in 5-level rating signs.
3. It is measurable regardless of the systemic condition of patients.
4. It is handy and easy to carry around (weight:60g).
5. It is less invasive and highly safe.



The way to hold a checker for stable measurement

Xerostomia is the most important factor in "oral care".

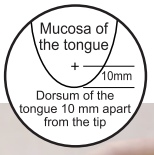
Oral moisture checker "Mucus" was developed as a medical device to realize easy and objective diagnosis of xerostomia, by focusing attention on reduced saliva production.

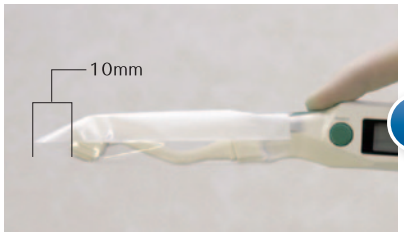
Moisture checker of the oral mucosa according to the bioelectrical impedance analysis (BIA).

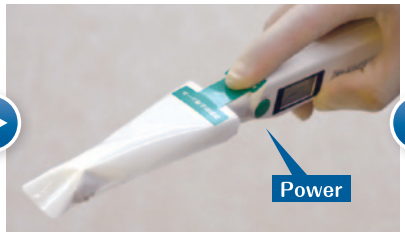
Measurement methods

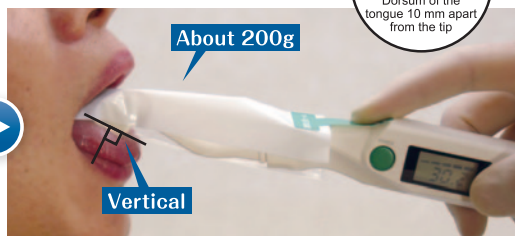
*Please remember to use a dedicated sensor cover.

- Measure the moisture for about 5 minutes in physically and mentally relaxing condition.
- Measure three times in a row and its median value is determined as the measurement value (to avoid deviation due to the wrong angle of a sensor).









1 Attach a sensor cover

Sensor cover consists of two films, transparent film and opalescent film. Put the transparent film on a sensor to the point where the film lightly touch the sensor and leave a margin about 10 mm of the tip of the cover.

2 Switch on the device

Switch on the device and electric sound "bleep" rings. Then, the number "0.00" appears on a display.

3 Make measurement

Protrude tongue from the mouth and press against the site with a certain force (about 200g) about 10 mm apart from the tip of the tongue so that the whole area of the sensor becomes perpendicular to the tongue. The measurement starts with the electric sound "bleep", and after staying still for about two seconds, the bleeps rings again and the measurement is completed.

Criteria for determination

Measurement value ranging from 27 to 31 is defined as borderline, and if the value is less than 27, dryness in the oral cavity is suspected. Diagnosis in combination with existing measurement methods, objective opinion, subjective symptoms as well as VAS is necessary.

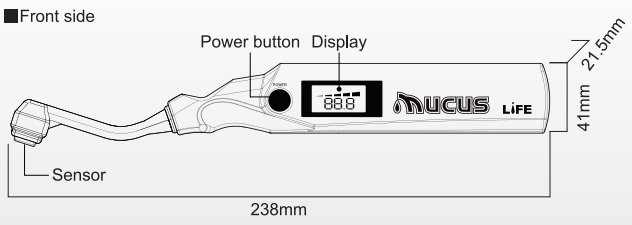
*According to a multicenter study on oral disease led by Saitama Medical University (published as a paper on "Oral disease")

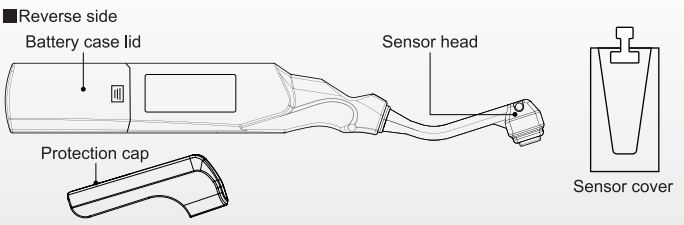
	Level sign	Value
Normal level	—▬▬▬	Over 30.3
	—▬▬	29.0~29.9
	—▬▬	27.0~28.9
Dry condition	——	25.0~26.9
	—	Below 24.9

Product specification

* Please note that specifications may change without prior notification.

Dimensions(mm)	Approx. 215 (width)x 238 (depth) x 41 (height)
Weight	60g (including the weight of battery)
Measurement time	About 2 seconds
Measurement environment	18-26°C, 35-65%RH (no condensation)
Main added function	Automatic power-off function / start of the measurement, completion and error message are announced with electric sound
Power source	Size AAA battery ×2
Power-supply voltage	DC3V
Power input	About 100 mW buzzer (voltage when buzzer sounds: 3V)
Electrode method	Comb-like electrode
Measurement frequency	60-140 KHz
Measurement site	Dorsum of the tongue
Output item	Quantification of dryness in the oral mucosa
Display range	00.0-99.8 (no unit due to the relative value)
Accuracy of measurement	± 2 (display value)
Measurement electric current	Less than 100 uA
Power consumption	100 mW
Display	Three digits (seven segment LCD)





Manufacturer

ICST Corporation

2nd Floor, S4 Tower 5-17-1 Kamiochiai, Chuo-ku
Saitama-shi, Saitama, JAPAN 338-0001
Tel: +81-48-857-8026 Fax: +81-48-857-8041 http://www.icst.jp/

Agency

European representative : Emargo Europe