

# OralChroma™

< CHM-1 >

Breath-testing device to measure and classify oral gas concentrations into three major causal components of halitosis.



## Overview

This testing device measures the chemicals in the breath; classifies the volatile sulfur compounds, a major component of halitosis, into three causal components (hydrogen sulfide, methyl mercaptan, and dimethyl sulfide); and provides a precise reading of each gas concentration. It is useful for identifying the cause of halitosis.

## Purpose and effect

- As an indicator to identify the cause of halitosis
- As an auxiliary tool to control oral health

## Basic function

- Classifies volatile sulfur compounds into three causal components (hydrogen sulfide, methyl mercaptan, and dimethyl sulfide) and measures each gas concentration.
- Displays concentration values in standard units (ng/10 ml and ppb).
- Ensures precise measurement accuracy using semiconductor gas sensor and simple column.
- Not affected by ambient temperature and humidity.
- Short standby time after power-on (basically within 30 minutes).
- Short measuring time (8 minutes).
- Designed for silent operation.

## Operability

- Operation time to collect oral breath sample is shortened by using small-capacity syringe for suction. (This lessens load on test subject.)
- Up to 99 measurement data values can be stored.
- Data can be stored and managed with a PC using specially designed software (option).
- Light and compact.

## Maintainability

- Long-life sensor and column (maintenance free for approx. 2 years).
- Automated alarm function notifying when it is time to change the rubber plug for the gas inlet.

## Specifications

Product name:	OralChroma	Type:	CHM-1
Detection system:	Simplified gas chromatography	Sample gas quantity:	0.5 cc
Detectable gas:	Following components included in volatile sulfur compounds	Measuring time:	8 minutes
	1) Hydrogen sulfide	Detection unit:	ng/10 ml and ppb
	2) Methyl mercaptan	Gas collection method:	Manual use of syringe
	3) Dimethyl sulfide		
Operating humidity range:	Relative humidity of 80% or less (no condensation)		
Operating temperature range:	10~30°C		
Storage humidity range:	Relative humidity of 20 – 90% (no condensation)		
Storage temperature range:	-20~60°C		
Power:	AC 100~220V, 50/60 Hz		
Power consumption:	40 VA		
Outer dimensions (mm):	280 (W) x 130 (H) x 400 (D)		
Weight:	approx. 5.5 kg		
Output terminal:	RS232C		
PC connection software:	※1 Windows 2000/NT4.0(SP5)/XP/Vista ※2 Mac OS 9.1/9.2/X10~		

※1 The OralChroma connects via the serial port (RS-232C) on the PC. Although it can be connected to a USB port, it requires an additional conversion cable, which must be purchased separately. ※2 The OralChroma requires a display resolution of 1024 x 768 pixels or higher. ※3 The OralChroma requires a display resolution of 800 x 600 pixels or higher.

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<http://www.abilint-international.com>

Manufacturing / Sales:



ABIMEDICAL CORPORATION

4-8-18, imazukita, tsurumi-ku, Osaka, 538-0041 Japan  
Phone: +81-6-7650-6518 Fax: +81-6-7650-6062

