

\* Methods of Analysis in Health comment 2020

2,3,3 disinfectant

1) Hydrogen peroxide

2) Determination by oxygen electrode method

Faster, more accurate  
than colorimetric analysis

*HYdrogen Peroxide Analyzer*

# HYPA M-7



Liquid  
food

Approx. **10** min

Solid  
food

Approx. **20** min  
(Including preparation)



- ▶ To check residual hydrogen peroxide in food and bottling containers
- ▶ Sanitary control of packing materials
- ▶ To check residual catalase in food (herring roe or milk etc.)



HYdrogen Peroxide Analyzer

# HYPA M-7

## Features

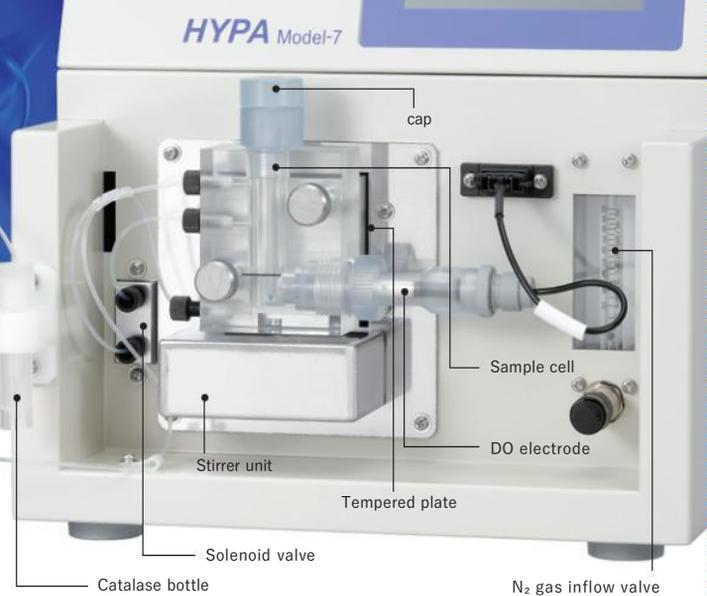
- ▶ It can measure a small amount of hydrogen peroxide with high accuracy.
- ▶ Preparation of analysis is simple (not necessary for milk). Muddiness and color will not affect the results.
- ▶ Possible to detect hydrogen peroxide selectively.

## Improvement points from the conventional model

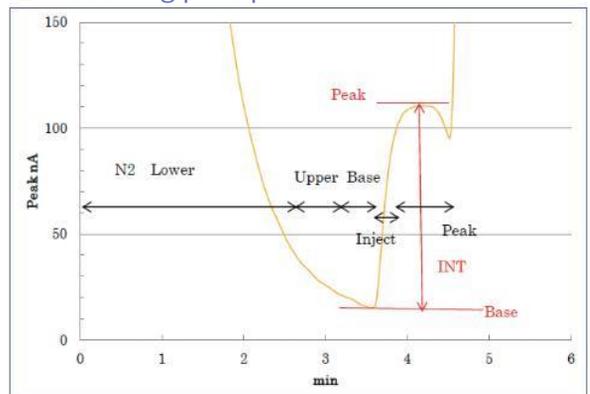
- ▶ Mounted a tempered plate, it can be measured without a water bath.
- ▶ Easy to replace the electrode membrane.

## Measuring principle

When catalase (enzyme) is added to a solution containing hydrogen peroxide, oxygen is generated. Detect the amount of this oxygen with oxygen electrode. The concentration is calculated by comparing it with the response value of a known concentration of hydrogen peroxide solution. Deoxygenate by blowing N<sub>2</sub> into the sample in advance. After that, the addition of catalase captures a small amount of the increase in oxygen concentration.



## Measuring principal



N<sub>2</sub> gas is passed through the sample cell (N<sub>2</sub> Lower/Upper), and the reference potential is calculated when the output of the DO electrode drops to a constant level (Base). After injecting catalase (Inject), the generated oxygen is measured (Peak) and the concentration of hydrogen peroxide is calculated from the peak intensity (INT).

## Technical data

Oxygen electrode	Polarograph oxygen electrode
Sample quantity	Approx. 2.0 ml (marked in cell)
Detection limit	Liquid: 0.01ppm / Solid: 0.02ppm
Data indicator	reading /graph
Output	Printer output (optional)
Thermocontrol	By a tempered plate built in the main body
Power supply	100-240V (Universal power supply)
Dimension	270 (W) x 279 (H) x 370 (D) mm
Weight	9.5 kg

※Separately, you need pure nitrogen gas (99.99%) equipment for measurement.



▲Standard accessories

▲Micro syringe

Product name	Content	Order number
Hydrogen peroxide meter HYPA M-7	Main unit, DO electrode, standard accessory, firmed tube (2/4 mm), bellows dropper (2 mm), micro syringe (50 μl)	C00251001
Catalase	Capacity: 50ml	C00255101
Printer	Printer (paper width 58 mm), RS-232C cable (straight), SD3-21SJD-W with AC adapter	C00251101

\*Please note that the specifications of the listed products are subject to change without notice for improvement.