kikkoman

## Can you say it is "clean" with confidence?

**Anyone can measure invisible contamination anywhere and anytime in only 10 seconds.**

# ATP *plus AMP* surface hygiene monitoring

# Lumitester PD-20 and LuciPac Pen


**Proprietary ATP plus AMP detection**

LuciPac Pen (100 swabs)

*LuciPac Pen is intended for use exclusively with Lumitester PD-20

Lumitester PD-20

**Small-size and Lightweight**

**World's smallest and weighs only 235 g.**
(battery not included)

**Simple and Speedy**

**"Swab and measure. That's all."**
**Measuring time is only 10 seconds.**

**Super high sensitivity**

**Measures both ATP and AMP.**(US Patent No. 5891659)
**Detects a wider range of contamination.**

- Suitable for cleanliness control of manufacturing sites and hygiene training of kitchens.
- Assess effectiveness of surface cleaning on the spot.

*ATP (adenosine triphosphate) is the substance contained in microorganisms and food residues and is used an indicator of biological contamination.
*AMP (adenosine monophosphate) is the substance generated from ATP changed by heating and fermentation.

# Let's eliminate food poisoning accidents by cleanliness control and increased hygiene awareness.

- ATP surface hygiene monitoring method is described in Guidelines for Food Hygiene Inspection, Chapter of microorganisms 2004 (supervised by Japan's Ministry of Health, Labour, and Welfare).
- ATP surface hygiene monitoring is the first step to HACCP.

## At restaurants and food service facilities

### Prevent cross contamination by cleanliness control.

- Assess effectiveness of surface cleaning on the spot.
- Compare results from different locations to identify areas of elevated risk.

## At food processing facilities

### Is the washing evaluation of manufacturing lines satisfactory?

- The system displays its great capabilities not only in routine washing evaluation but also identification of contaminated portions in time of emergency.
- Being dry swabs, water sampling is enabled.

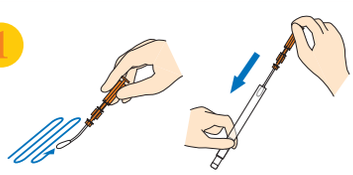
## For hygiene training

### Hygiene training is the basic of basics.

- Real-time feedback and easy-to-use protocols provide an excellent tool for hygiene training.

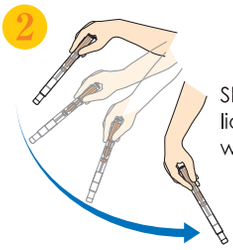

## How to use

1



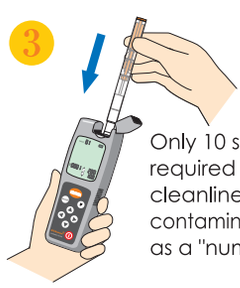
Moisten the swab, swab the object to be tested with the swab stick, put the swab stick back into the main body, and push once.

2



Shake off the extraction liquid and allow it to react with the reagent.

3



Only 10 seconds are required to measure the cleanliness. Degree of contamination is expressed as a "numerical value."

| Lumitester PD-20 (Product code: 60485) | |
|---|---|
| Measuring time | 10 seconds |
| Data output | Relative Light Unit |
| Data memory | 2000 data |
| Power supply | AA alkali battery x 2 or AA nickel metal-hydride battery x 2 |
| Size/weight | 65x175x32 mm/about 235 g (battery not included) |
| Accessories | AA alkali battery x 2, cleaning brush, stand, USB cable, strap, quick manual, CD-ROM |

| LuciPac Pen (100 swabs) (Product code: 60331) | |
|---|---|
| Product form | Swabs, ATP extracting reagent, integral type inspection reagent including luminescent reagent |
| Package/packing | One aluminum bag containing 20 swabs and five bags make 1 kit (a total of 100 swabs) |
| Storage conditions | 2-8°C Do not freeze. |

*LuciPac Pen is a reagent dedicated for Lumitester PD-20. It is not used for conventional products.
*Measured values are same as conventional Lumitester PD-10(N) & LuciPac W.

<Precaution> *Do not use this product for other than intended use of cleanliness inspection. *This product is not used for general viable cell count or detection of specific pathogenic bacteria, etc., for which please take care.

**Manufacturer, Contact**

kikkoman

Kikkoman Biochemifa Company
2-1-1, Nishi-shinbashi, Minato-ku, Tokyo 105-0003, Japan
Phone: +81-3-5521-5490 Fax: +81-3-5521-5498
E-mail: biochemifa@mail.kikkoman.co.jp
URL: http://www.kikkoman.co.jp/bio/index_e.html