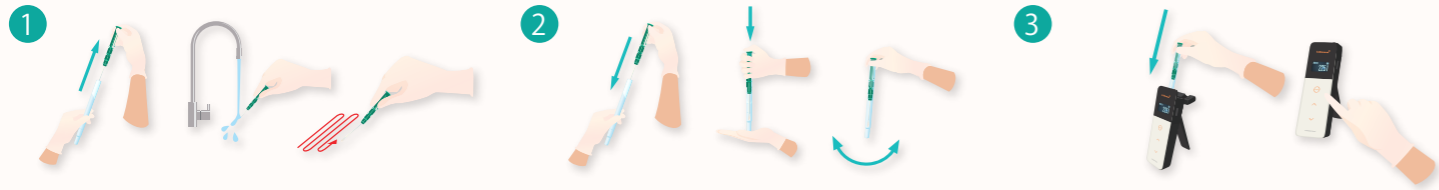


**Instructions for LuciPac A3 Surface** Allow LuciPac to reach room temperature (20~35°C, 20 minutes) before use.



Moisten the swab with tap water<sup>\*1</sup>, then swab the sample<sup>\*2</sup>.

\*1 Do not use Saline. \*2 Measurement results may not be valid if there is disinfectant such as alcohol or detergent remaining on the surface.

Insert the swab back into the main body, then push it down. Shake until the liquid reagent slides down and dissolve powdered reagent.

Insert the LuciPac into the chamber of Lumitester to make a measurement. Remove the LuciPac from the Lumitester when the measurement is completed.

**Instructions for LuciSwab** Allow LuciPac to reach room temperature (20~35°C, 20 minutes) before use.

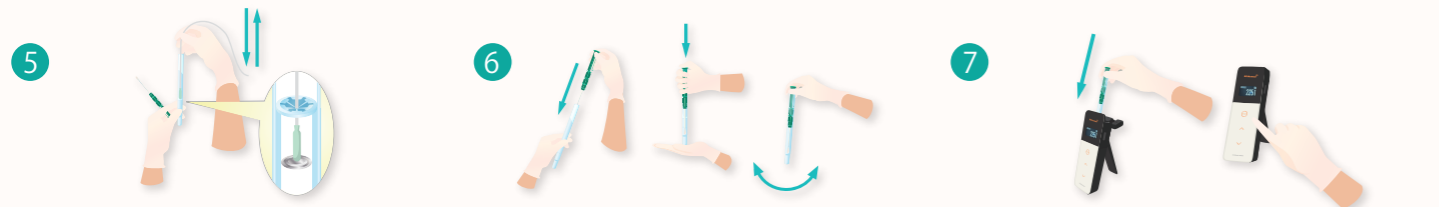


Put on powder free gloves. Cut the bag vertically from the notch. Take out the LuciSwab while ensuring that the swab tip does not touch anything.

Moisten the swab with tap water<sup>\*1</sup> if the endoscope is dry.

Insert the swab from the channel of endoscope. Push the stem and take out from the distal end.

Holding the LuciSwab at 12-13 cm distant point from its cotton bud, remove the sampling stick from LuciPac.



Insert the LuciSwab into the main body of the LuciPac, then wash LuciSwab in releasing reagent. Be careful not to break the aluminum seal.

Remove the LuciSwab and insert the swab back into the main body, then push it down. Shake until the liquid reagent slides down and dissolve powdered reagent.

Insert the LuciPac into the chamber of Lumitester to make a measurement. Remove the LuciPac from the Lumitester when the measurement is completed.

\*1 Do not use Saline. \*2 Measurement results may not be valid if there is disinfectant such as alcohol or detergent remaining on the surface.

**Lumitester™**

**Lumitester Smart** Product Code: 61234



|                  |   |
|------------------|---|
| Measurement time | 10 seconds.   |
| Data output      | RLU (Relative Light Unit)   |
| Power            | 2 alkaline or nickel hydride rechargeable batteries (AA)                  |
| Accessories      | 2 alkaline batteries (AA), Cleaning brush, USB cable, Strap, Quick Manual |

※Lumitester is not a medical device.  
 ※Make sure to remove the LuciPac A3 Surface from the Lumitester when measurement is completed. If the Lumitester is stored while the LuciPac A3 Surface is left in the instrument, fluid of LuciPac A3 Surface may leak out and damage the instrument.

※ Do not use this product for purposes other than hygiene monitoring.  
 ※ LuciPac A3 and Lumitester Smart should not be used for counting general living bacteria or detecting specific pathogens.

**LuciSwab™**



**LuciSwab ES 2.0-2.2** Product Code : 60355 40 swabs/kit Sizes(DxL) 2.0-2.2mmx2500mm

**LuciSwab ES 2.8-3.2** Product Code : 60366 40 swabs/kit Sizes(DxL) 2.8-3.2mmx2500mm

**LuciSwab ES 3.7-4.2** Product Code : 60367 40 swabs/kit Sizes(DxL) 3.7-4.2mmx2500mm

**Storage condition** Store at room temperature preventing from high temperature and humidity

\*Use in combination of LuciSwab and LuciPac. Other commercial cotton and reagent may not generate accurate results.  
 \*Do not use LuciSwab for the area narrower than swab diameter. Otherwise, the cotton bud might fall off or be stuck in.

\*Lumitester™ and "LuciPac" are registered trademarks of Kikkoman Corporation in Japan and other countries.  
 \*LuciSwab™ are registered trademarks of Kikkoman Corporation in Japan.

※The information contained herein is subject to change without further notice.

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[info@abmoli.com](mailto:info@abmoli.com)  
[WWW.ABMOLI.COM](http://WWW.ABMOLI.COM)

**LuciPac™ A3**



**LuciPac A3 Surface** Product Code : 60361 100 tests/kit

**LuciPac A3 Water** Product Code : 60365 100 tests/kit

|                   |   |
|-------------------|---|
| Storage condition | 2-8°C (Do not freeze)<br>25°C : 14 days (Unopened) 30°C : 5 days (Unopened) |
| Expiry            | 15 months after manufacturing date  |

※ Use LuciPac A3 for Lumitester Smart, PD-30 or PD-20. Do not use it for other models.



**Because better detection equals better protection.**

Hand Hygiene / Education, Monitoring and Feedback

Environmental Cleaning and Monitoring for Infection Prevention and Control

Cleaning Evaluation of Medical Instrument / CSSD

Endoscope Cleaning Verification



**Lumitester™**  
 With **A3** Detection  
**ATP+ADP+AMP**

**More Reliable and Sensitive**  
**A3 Finds What Others Miss**



LuciSwab ES 2.0-2.2  
 LuciSwab ES 2.8-3.2  
 LuciSwab ES 3.7-4.2



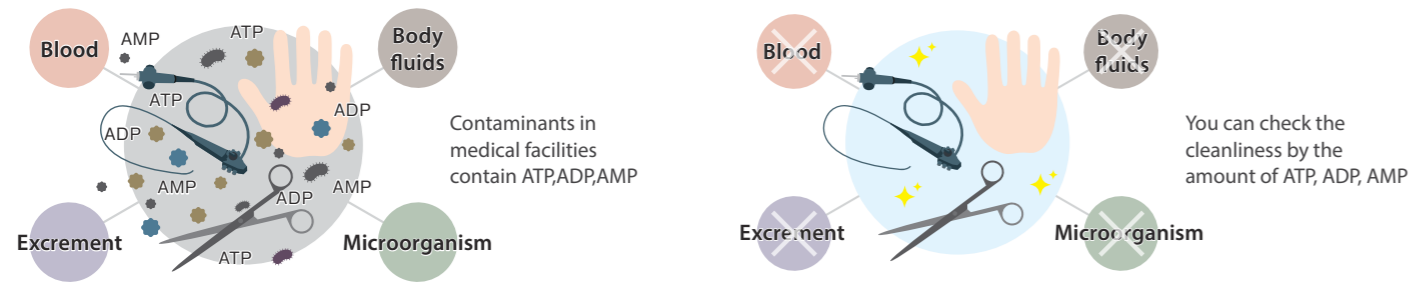
Tel 09-7434264 טל  
 Fax 09-7440681 פקס

## What is A Novel ATP Test? - ATP+ADP+AMP Hygiene Monitoring System

A novel ATP test – ATP+ADP+AMP hygiene monitoring system is used to measure the amounts of ATP, ADP and AMP.

ATP, ADP and AMP are present in contaminants of medical facilities (blood, body fluids, excrement, microorganism).

If the level of ATP, ADP, AMP is high, the cleaning is considered insufficient; If the level is low, the cleaning is considered adequate.



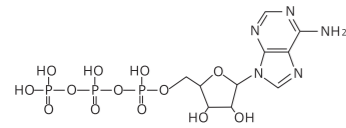
## Principle of A3 Technology – ATP+ADP+AMP Detection

Kikkoman has developed ATP+ADP+AMP detection, A3 technology by utilizing brewing technique of soy sauce.

Kikkoman's own A3 technology allows you to detect not only ATP but also ADP and AMP have been overlooked.

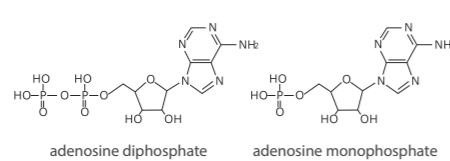
### What is ATP?

ATP (adenosine triphosphate) is the primary molecule involved in metabolism in all living organisms.



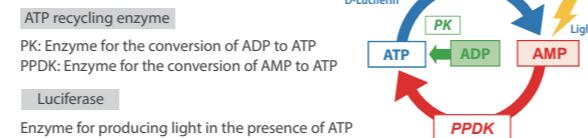
### What is ADP, AMP?

ADP (adenosine diphosphate) and AMP (adenosine monophosphate) are derived from ATP during the processing, such as heat treatment and fermentation.



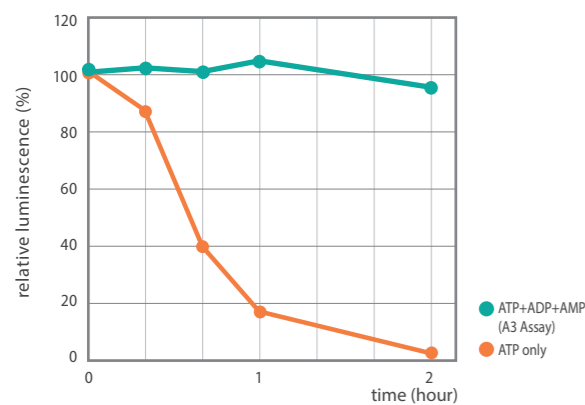
### Kikkoman A3 Technology

Kikkoman has forever improved the ATP test using Kikkoman's A3 Technology that employs advanced chemistry to detect ATP+ADP+AMP to offer higher sensitivity and better detection.



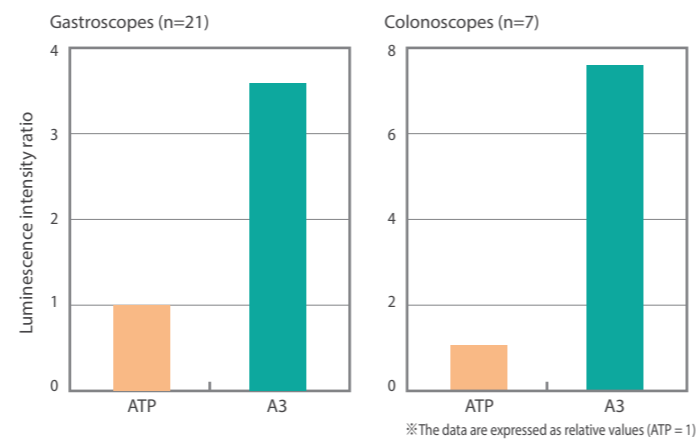
## A3 Technology – More Reliable and Sensitive

Deletion of blood over time by Kikkoman A3 with comparison to conventional ATP tests.



ATP was degraded dramatically after hemolysis. Yet, the concentration of ATP+ADP+AMP was stable and detected by A3 assay. A3 is a more reliable marker for the detection of blood contamination.

Detection of adenosine nucleotides from Gastroscopes and Colonoscopes immediately after patient use.



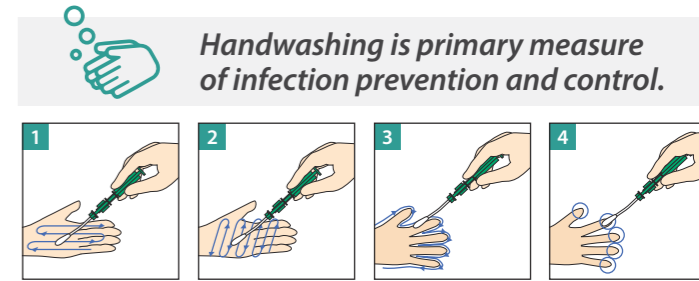
The detection sensitivity of the A3 method on residues derived from gastroscopes and colonoscopes were between 3 and 8 times higher than those of ATP method. Thus, A3 method is more sensitive for monitoring gastrointestinal endoscope hygiene.

## Infection Prevention and Control – Hand Hygiene / Education, Monitoring and Feedback

### Test locations, benchmark values and swabbing methods

| Test locations             | Benchmark values (RLU) | Swabbing methods  |
|----------------------------|------------------------|---|
| <b>▶ Hands and Fingers</b> |                        |   |
| Palm (dominant hand)       | 2000                   | Swab the entire palm of the hand over 5-10 passes in the left-to-right and up-to-down directions as well as between fingers and the tips of fingers |

A3 makes training impressive and encourage handwashing.



## Infection Prevention and Control – Environmental Cleaning and Monitoring

### Test locations, benchmark values and swabbing methods

| Test locations             | Benchmark values (RLU) | Swabbing methods  |
|----------------------------|------------------------|---|
| <b>▶ Nurses' Station</b>   |                        |   |
| Cart                       | 500                    | Swab the entire surface of each arm   |
| Stethoscope                | 500                    | Swab the entire surface of the chest piece  |
| Sphygmomanometer pump      | 500                    | Swab the entire surface of the pump   |
| IV pole                    | 500                    | Swab the entire surface of the handle   |
| Phone receiver             | 500                    | Swab the entire surface of surface (inner and outer side)   |
| PC keyboard / mouse        | 500                    | Swab the entire surface   |
| Refrigerator (handle)      | 500                    | Swab the entire surface of the handle (inner and outer side)  |
| <b>▶ Hospital Ward</b>     |                        |   |
| Overbed table              | 500                    | Swab each corner and a 10 cm by 10 cm area at the center in all directions                          |
| Door handle                | 500                    | Swab the entire surface of the handle   |
| Bed side rails             | 500                    | Swab 10 cm-wide areas at the three spots (left and right side, center) of the top of the side rails |
| Nurse call button          | 500                    | Swab the entire surface of the button   |
| Remote control             | 500                    | Swab the entire surface of the remote control   |
| <b>▶ Medical Equipment</b> |                        |   |
| Touch panel                | 500                    | Swab a 10 cm by 10 cm area frequently touched   |

Evaluation for environmental hygiene focuses on those areas frequently touched by hands, where have high possibility of cross-infection. It's helpful to improve the cleaning performance.



▶ How to determine the test locations It is recommended to check the cleanliness level after cleaning. The areas easily contaminated or difficult to wipe out are good candidates for testing.

## Medical and Surgical Instruments Monitoring / Endoscope Verification

### Test locations, benchmark values and swabbing methods

| Test locations  | Benchmark values (RLU) | Swabbing methods   |
|---|------------------------|--|
| <b>▶ Surgical Instruments</b>                                 |                        |  |
| Parts with uneven surfaces, box locks, and similar parts      | 100                    | Swab the surfaces of areas other than those touched by hands   |
| Devices and parts with complicated designs                    | 100                    | Swab the surfaces of areas other than those touched by hands   |
| <b>▶ Endoscope / Duodenoscope</b> *Temporary benchmark values |                        |  |
| Biopsy port   | *100                   | Swab as far as a cotton swab can be inserted   |
| Suction port  | *100                   | Thoroughly swab the entire inner surface of each channel while turning the cotton swab around                      |
| Air and water channels  | *100                   |  |
| Forceps elevator  | *100                   |  |
| Distal end  | *100                   | Thoroughly swab the entire surface of the lens and the area extending approx. 1 cm on the outer sides from the tip |
| Inner side of biopsy channel (LuciSwab+LuciPac)               | *100                   | Insert LuciSwab from the biopsy port, push the stem and take out from the distal end                               |
| <b>▶ Dialysis Room</b>  |                        |  |
| Coupler   | 100                    | Swab the connectors  |

It's recommended to test after cleaning (in the dried state).

Monitoring after manual cleaning is recommended.

Evaluate coupler of dialysis machine.



## Hospital Food Service

### Test locations, benchmark values and swabbing methods

| Test locations             | Benchmark values (RLU) | Swabbing methods  |
|----------------------------|------------------------|---|
| <b>▶ Kitchen</b>           |                        |   |
| Kitchen knife              | 200                    | Swab the entire surface of the blade on both sides and the knife bolster  |
| Cutting board              | 500                    | Swab a 10 cm by 10 cm area at the center in the left-to-right and up-to-down directions   |
| Handle                     | 200                    | Swab the entire surface of the handle   |
| Food preparation table     | 200                    | Swab a 10 cm by 10 cm area at the center in both the left-to-right and up-and-down directions   |
| <b>▶ Hands and Fingers</b> |                        |   |
| Hands and Fingers          | 2000                   | Swab the entire palm of the hand over 5-10 passes in the left-to-right and up-to-down directions as well as between fingers and the tips of fingers |

Food poisoning is one of hospital acquired infections.

The main cause of food poisoning is secondary contamination due to inadequate cleaning. Assess cleanliness of kitchenware with ATP+ADP+AMP hygiene monitoring system.

Note: Conduct self-validation and establishing own benchmark value is recommended.