

**Society of
Industrial technology for
Antimicrobial
Articles**

profile

"KOHKIN"

HIDDEN INGENUITY TO GLOBAL INDUSTRY

As you're aware, Japan is known as warm and humid sufficient for propagation of bacteria. However our ancestor shown us magic to preserve food and circumstances. We call it, "Koh-kin(Antibacterial) effect."

The word "Antibacterial" means a state or effect where growth of bacteria on the surfaces of products is suppressed.

The effect comes from specific vegetation such as Hinoki(Japanese cypress), persimmon, and scientists state ancient people of Japan discovered through experience and applied it over generations. We can see their evidence in wooden enduring building famous as Kyoto temples, or rich dietary habits such as "Sushi."

The reason to propose you antimicrobial effect is because of low impact on human ecosystem, not so harmful as sterilization or disinfection but beneficial enough to preserve food and circumstances for human living, lesser stimulation is expected to slowdown evolution of bacteria resistance, lesser energy is required to achieve same benefits by inventions in the age of machine.

SIAA, formed on June 1998, is an organization dedicated for standardization and promotion of antibacterial technology, which members keep conducting research on mechanism of this ancient wisdom, stabilize antimicrobial performance with modern technology. Secrets of this effect are being revealed by everlasting studies, thus currently we can reproduce and control performance with several types of antimicrobial agents.

Goal of us, SIAA is to introduce this ancient ingenuity found in a small island country, improving performance, spread to the World by putting your plans into action with our property JIS (Japanese Industry Standard) registered as JIS Z-2801, and ISO-22196:2007.

We know several milestones to reach for, and responsibility of providing keys beyond the age of machine.



Registered in Japan and other countries.

ISO 22196:2007 - The first global standard for antibacterial efficacy is into action.

SIAA launched SIAA mark on 1998, played an important role on development of JIS Z 2801. JIS Z 2801 is globalised as ISO 22196 on 2007.

In response to release of ISO 22196, conventional antibacterial products indicate SIAA mark also in international markets, then foreign company and organization are welcome for membership.

Quest for undiscovered market continues.
Appliances, Building material, Automobiles, Magazines,



SIAA's POLICY - Recognizability and Disclosure -

SIAA's policy on industrializing antimicrobial technology is consistent in viewpoint of taking balance between effectiveness and safety. Recognition through certified logo and disclosure regarding safety information are core of today's success such as Ecomark compatibility. This policy is also carefully inherited by ISO standards.

1. Consumers viewpoint, consumers benefit first
2. Live and let live biosphere
3. Disclose safety and quality information
4. Keep educating proper usage of products

Growing technology, Growing market.

Antimicrobial products are popularized so markets are growing outside Japan. Currently the Japanese market is estimated over 5 billion EURO scale, however expected to be grow drastically accelerated by release of ISO, which over 150 nations join.

Activities of SIAA

SIAA is an organization for spread of good antimicrobial products to consumers, made up of manufacturer of agents, antimicrobial products, and analysis/evaluation organizations. Not only inside, SIAA discusses widely involving consumer groups, government agencies, academic experts to improve quality and safety.

Following activities are conducted to spread superior antibacterial/antimicrobial products.

- Voluntary standards for quality and safety
- Regulations for data registration about quality/safety
- Terminology
- Usage of SIAA mark
- Administrative regulations of products and agents
- Regulations for antibacterial administrator
- Maintain antifungus positive list

Followings are carried out to promote disclosed and fair spread of antibacterial concept and benefit.

- Open committee involving consumer groups, government, academic experts.
- Market research
- Discussion with other industrial organizations
- Hosting seminars, lectures
- Collaboration with IBRG
- Disclosure through website

Safety and Quality Control

Member of SIAA has to satisfy our performance regulation to assist development of superior antimicrobial products which can be an easy and safe choice for consumers.

Safety Regulations

In some circumstances, it is quite important to designate balance between antibacterial efficacy and safety because both may be traded off.

Regulatory is documented for maximum content of antimicrobial agents. In addition, we guide you to avoid dangerous chemical compounds already known.

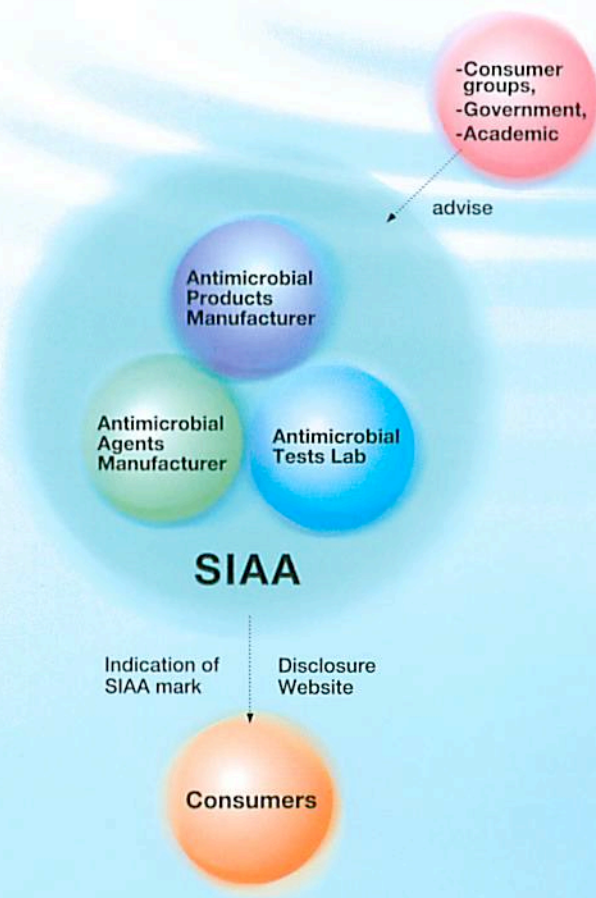
Quality Control

To maintain quality, SIAA publishes a regulation for evaluating antibacterial efficacy and list of safety confirmed antifungus agents (positive list).

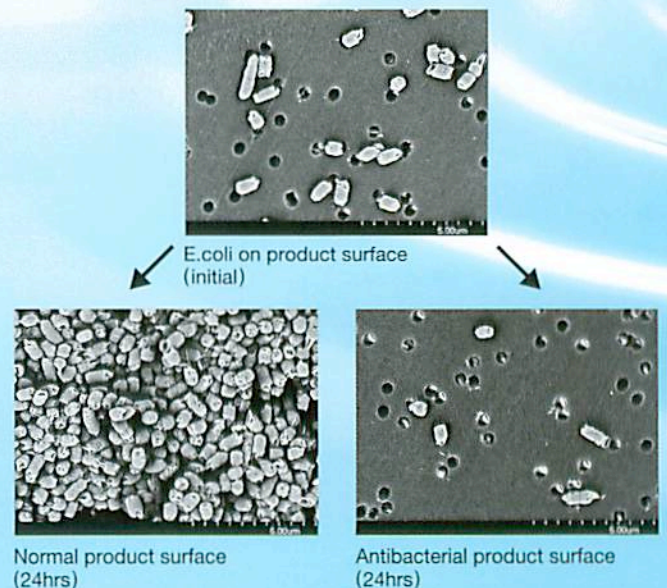
Furthermore, every antibacterial products are under evaluation of sustainability test (water proof and ultraviolet proof test)



Testing antibacterial efficacy



Illustrated picture of antibacterial effect



About SIAA

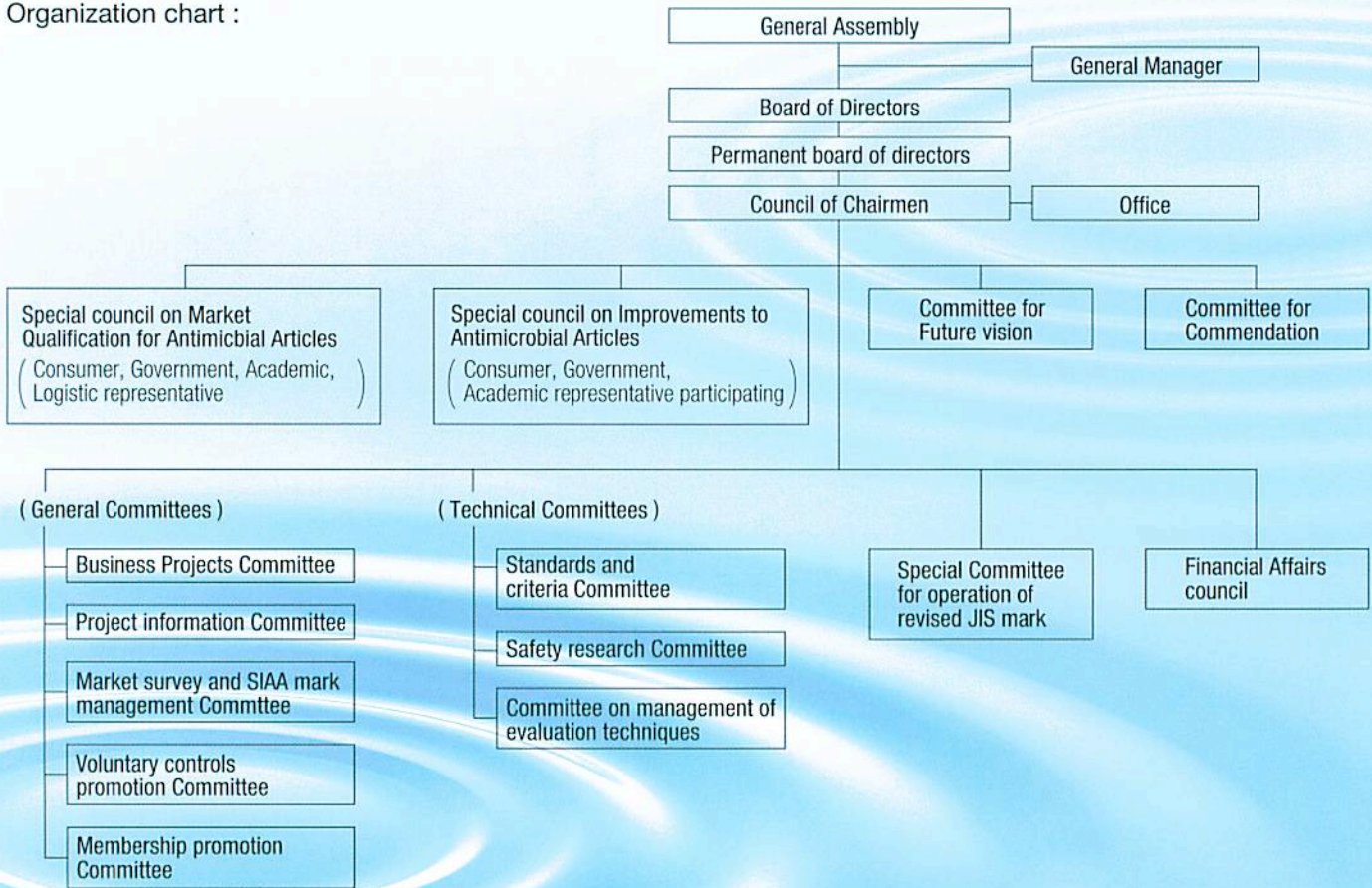
Official Name: Society of Industrial technology for Antimicrobial Articles

Founded: June 1998

History: Dec 1998 Published self guideline
 Dec 1998 SIAA mark (Ver.1) started
 Jul 2001 SIAA mark (Ver.2) - JIS compliant.
 Nov 2007 SIAA mark (Ver.3) - ISO 22196 compliant testing methods

Members: Over 159 companies and organizations. (End of 2007)
 Member as product manufacturer : 110
 Member as agent manufacturer : 30
 Assistance member (Laboratories) : 6

Organization chart :



What is SIAA mark ?

SIAA mark is an icon for informing safety and reliability of antimicrobial products to consumers. Marks are self-imposed by antimicrobial administrator in each member organization, educated by SIAA programs. Indication of SIAA mark on products are restricted only for members and operation is monitored under SIAA quality control team.

SIAA mark (Version 3) :



MILESTONES - continuing mission of SIAA -

Standardization with ISO

ISO TC meeting (Sep,2006)



Joint research with IBRG

Meeting at Kyoto (Mar,2004)



IBRG conference (first in Asia) (Nov,2005)

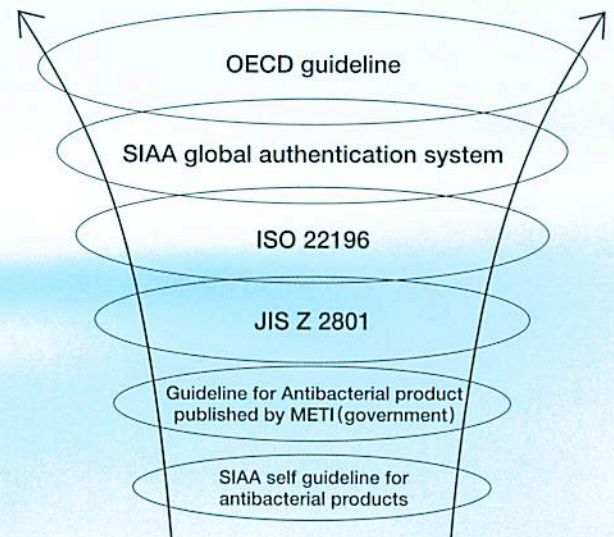


Events

Company presidents' meeting
Keynote delivered by president of IBRG. (Sep, 2006)



Special presidents' meeting at METI head office, Tokyo. Discussion about ISO direction with METI vice-Minister (Oct 2007)



IBRG : International Biodeterioration Research Group.
Founded in Paris, 1968. Expert group of test method development interested in biodeterioration.
(<http://www.ibrg.org/>)

OECD : Organisation for Economic Co-operation and Development.
One of government forum to address economic, social, governance globalisation.
(<http://www.oecd.org/>)

JNLA : Japan National Laboratories Accreditation system.
(<http://www.nite.go.jp/index-e.html>)

TAKE THE LEAD FOR ANTIMICROBIAL TECHNOLOGY

- CALL FOR MEMBERS -

SIAA is ready for every manufacturers interested in this newly growing antimicrobial market to work with. Manufacturers plan to sell antimicrobial agents or applied products can join SIAA as regular member even if your location is outside Japan or outside current our fields.

Membership benefits

- * Indication of SIAA mark is granted under control of self-authentication (Regular member only)
- * Allowed to join development of antimicrobial global standards
- * Cutting edge antimicrobial trends are informed in advance
- * Opportunities to new business between members through meetings or introductory actions.

Requirements depends on your plan

For antimicrobial products manufacturer :

1. Certificate for antimicrobial efficacy test issued by JNLA approved laboratories including following tests.
 - Water-proof Ultraviolet-proof test as preparation
 - ISO-22196 propabation test using bacteria
 - Counting bacteria to solve for antibacterial activity index. (required 2.0 equal or greater)
2. Acute oral toxicity test
3. Primary Skin Irritation test
4. Mutagenicity
5. Skin sensitization test

For antimicrobial agents manufacturer :

1. Certificate for MIC(Minimum Inhibition Concentration) achieved 800 micro-gram/ml or weaker.
2. Acute oral toxicity test
3. Primary Skin Irritation test
4. Mutagenicity
5. Skin sensitization test

For antifungus products manufacturer :

1. Certificate for effect by method of ASTM G21-96 resulting 1 rank difference at least.
2. All antifungus agents used in product must be listed on SIAA antifungal agents positive list.

For antifungus agents manufacturer :

1. Certificate for MIC(Minimum Inhibition Concentration) achieved 800 micro-gram/m1 or weaker.
2. All antifungus agents used in product must be listed on SIAA antifungal agents positive list.
3. Statement for disclosing safety, environmental impact, application restriction documents.

<http://www.kohkin.net>

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