ISCC-Plus認証を取得したプラスチックの採用

～持続可能な未来への第一歩～

Embracing ISCC-Plus Certified Plastics

A Step Toward a Sustainable Future

kikkoman

Kikkoman Biochemifa Company

Agenda

- キッコーマングループについて
- キッコーマンバイオケミファについて
- ISCCとの取り組み

- About KIKKOMAN
- About KIKKOMAN BIOCHEMIFA
- Collaboration with ISCC

About KIKKOMAN

KIKKOMAN

- 設立 / Established in 1917

  江戸時代より続く野田のしょうゆ醸造家一族が合同

  Soy Sauce business was started in the 17th Century
- 売上収益 / Revenue ¥661 billion (≒USD4.4 billion)

  ⇒うち海外 77% from outside Japan
- 事業利益 / Business profit ¥73 billion (≒USD0.5 billion)

  ⇒うち海外 89% from outside Japan
- 関係会社 57 Group Companies
- 従業員 7,521 Employees

Figures as of March 2024

kikkoman
seasoning your life

KIKKOMAN Business

- しょうゆ　No.1 Soy Sauce (traditionally brewed) manufacturer
- 豆乳　No.1 Soy Milk manufacturer in Japan
- デルモンテ　Del Monte Product in Asia/Oceania
- 東洋食品卸売　Oriental Food Wholesaler worldwide
- バイオケミカル　Biochemical Business

Soy Sauce Food Products	Soy Milk	Del Monte Asia/Oceania	Oriental Food Wholesale Business	Biochemical Business

キッコーマングループ環境理念

キッコーマングループは、自然のいとなみを尊重し、
環境と調和のとれた企業活動を通して、
ゆとりある社会の実現に貢献します。

Kikkoman Group Environmental Philosophy

The Kikkoman Group will respect the working of nature, and contribute to the realization of a society comfortable to live in through our corporate activities keeping harmony with the environment.

制定　1992年10月　　Established on Oct. 1992
改定　2007年5月　　Revised on May 2007

キッコーマングループ　環境への取り組み
Key Milestones of Kikkoman's Actions toward Sustainable Society

1972	環境管理部を設置	Environmental Management Dep.
1992	環境憲章制定を公表	Environmental Principles
1998	環境報告書を公表	Annual Environmental Report
2001	国連グローバル・コンパクトに署名	UN Global Compact Initiative
2008	容器包装に関する指針を策定	Guidelines for Containers and Packaging
2019	プラスチック資源循環アクション宣言に参加（農林水産省）	Plastic Resource Recycling Declaration by MAFF
2020	グループ長期環境ビジョンを策定	Long-Term Environmental Vision

プラスチック問題への取り組み事例
Some Examples of tackling Plastic Issues

2018　密封ecoボトルの開発　Launch of “Sealed Eco Bottle”

材質をPEからリサイクル可能なPETに変更
Material suitable for recycling (PE⇒PET)

取り外しやすいラベルとキャップ
Product label and cap easily removed and recycled

従来の密封ボトルより10%軽量化
10% lighter than conventional containers

※2021～　ボトルの一部に環境に配慮したリサイクルPET樹脂を使用
Start including Recycled PET resin in the bottle materials

プラスチック問題への取り組み事例
Some Examples of tackling Plastic Issues

2023　植物由来プラスチックの採用　Use of Plant-based Plastics

「キッコーマン豆乳」1000mlのキャップと200mlのストローを植物由来（サトウキビを原料に使用）のバイオマスプラスチックに順次変更

Plant-based (made with sugar cane) biomass plastic for the caps of 1000mL “Kikkoman Soymilk” cartons and the straws of 200mL cartons

プラスチック問題への取り組み事例
Some Examples of tackling Plastic Issues

2023 マスバランス方式の100%バイオマス原料に紐づくプラスチック
Plastics linked to 100% biomass feedstock by mass balance approach

About
KIKKOMAN BIOCHEMIFA

キッコーマンのバイオケミカル事業
Kikkoman's Biochemical Business

臨床診断薬酵素事業　Enzyme Production for Diagnostic Tests

糖尿病診断用酵素　Marker for diabetes (Glucose, HbA1c)
腎機能診断用酵素　Marker for renal function (Creatinine)

衛生検査薬事業　Food Safety & Hygiene Monitoring Tests

ATP検査試薬、機器　ATP hygiene monitoring test
簡易培地　Prepared Media Plate for Microbial test
ヒスタミンテスト　Toxin (Histamine) test
アレルゲンテスト（日本国外のみ）　Allergen test

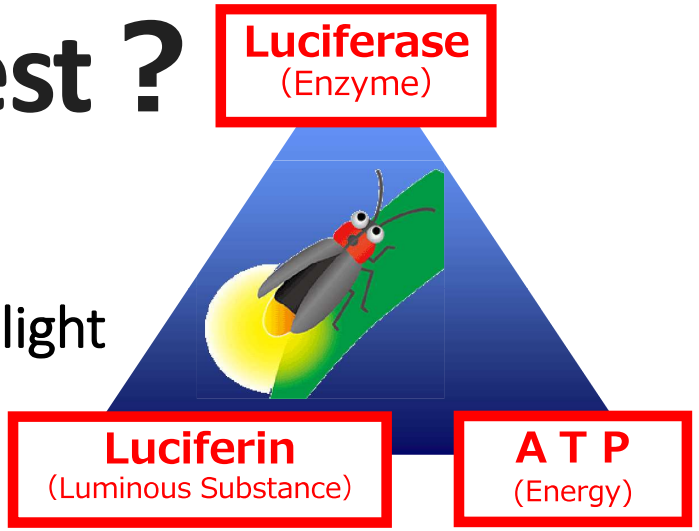
化成品事業　Natural Products

ヒアルロン酸（医療、化粧用）Hyaluronan (Pharmaceutical, Cosmetic)
機能性素材　Health Food Ingredient

ATP検査とは？　What is ATP Test？

蛍の光の酵素を用いて汚れを数値化

Measure the level of cleanliness using enzymes from fireflies' light

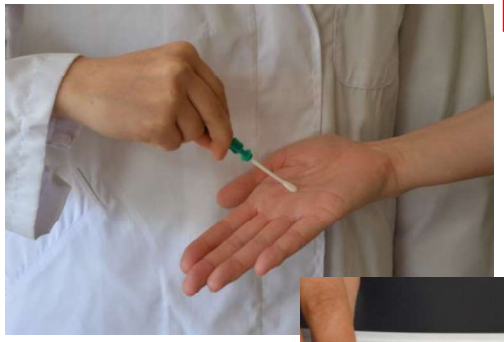


ＡＴＰ（アデノシン三リン酸）は全ての生物が持つ共通のエネルギー

洗浄後にＡＴＰがあるということは、まだ、汚れている！

ATP (Adenosine triphosphate) is energy-carrying molecule found in the cells of all living things

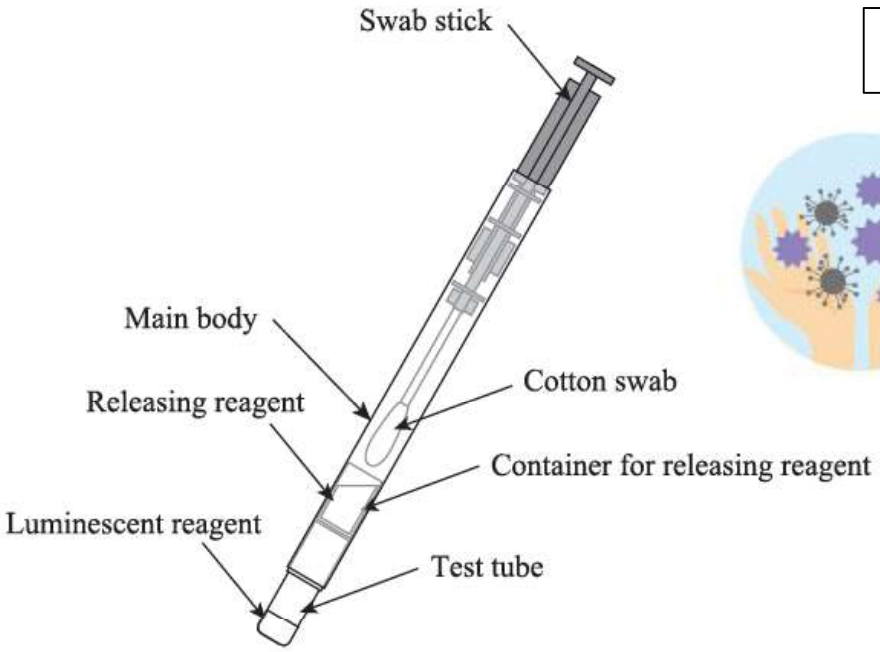
Presence of ATP after cleaning indicates insufficient cleaning.



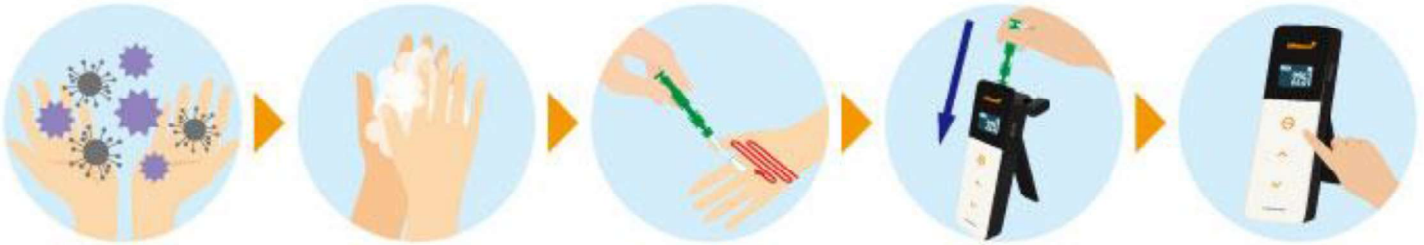
ルシパック　LuciPac

ふき取り用綿棒と試薬からなるＡＴＰ検査キット

ATP Test Kit consists of swab and reagent



ルシパックの使い方　How to use LuciPac



洗って Wash　ふき取って Swab　入れて Insert　測るだけ Measure

ISCCとの取り組み

～環境にやさしいプラスチックの導入～

Collaboration with ISCC

～adapting eco-friendly plastics～

試薬を含むため再利用ができず使い捨て（1本あたり6.8 gのプラスチック使用）

Disposable and non-reusable due to containing reagents (6.8 g of plastic per unit)

年間50トン以上

More than 50 MT per year

環境負荷の少ないプラスチックを使いたい！

Let’s switch to eco-friendly Plastics !!

kikkoman
Kikkoman Biochemifa Company

ITOCHU

cips
ITOCHU PLASTICS INC.

ISCC
International Sustainability & Carbon Certification

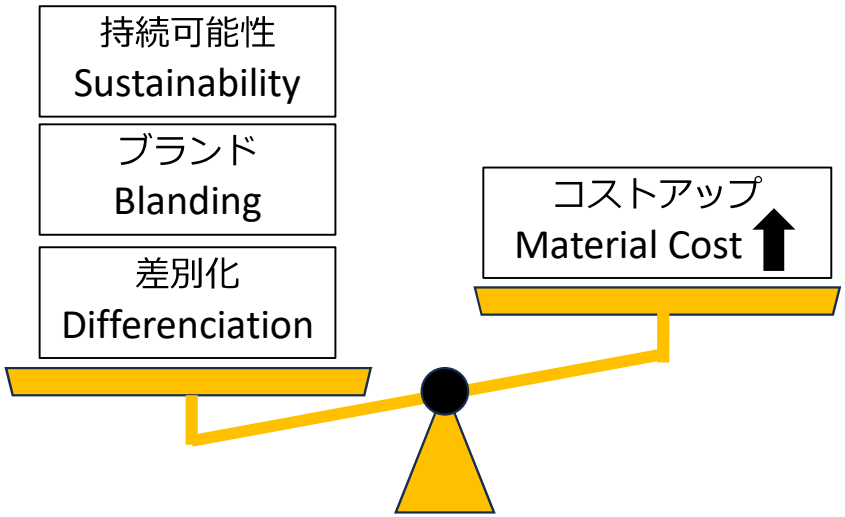
環境対応　Environmental Issue

三つの利点　3 Advantages

環境負荷が小さい
Eco-friendly with a low environmental impact

ルシパックのブランドに好ましい影響
A positive impact on the LuciPac brand

競争上の利点
A competitive advantage for differentiating our product in the market



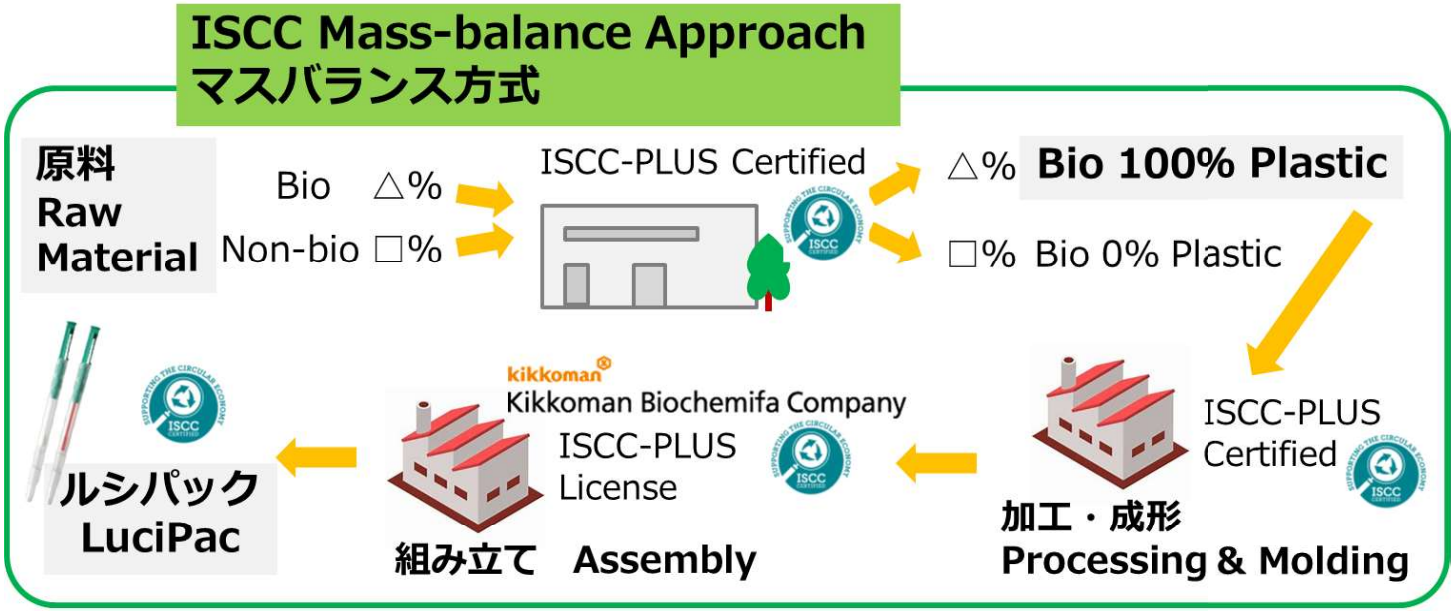
環境対応　Environmental Issue

なぜ ISCC ?　Why ISCC ?

高い信頼性
Reliability

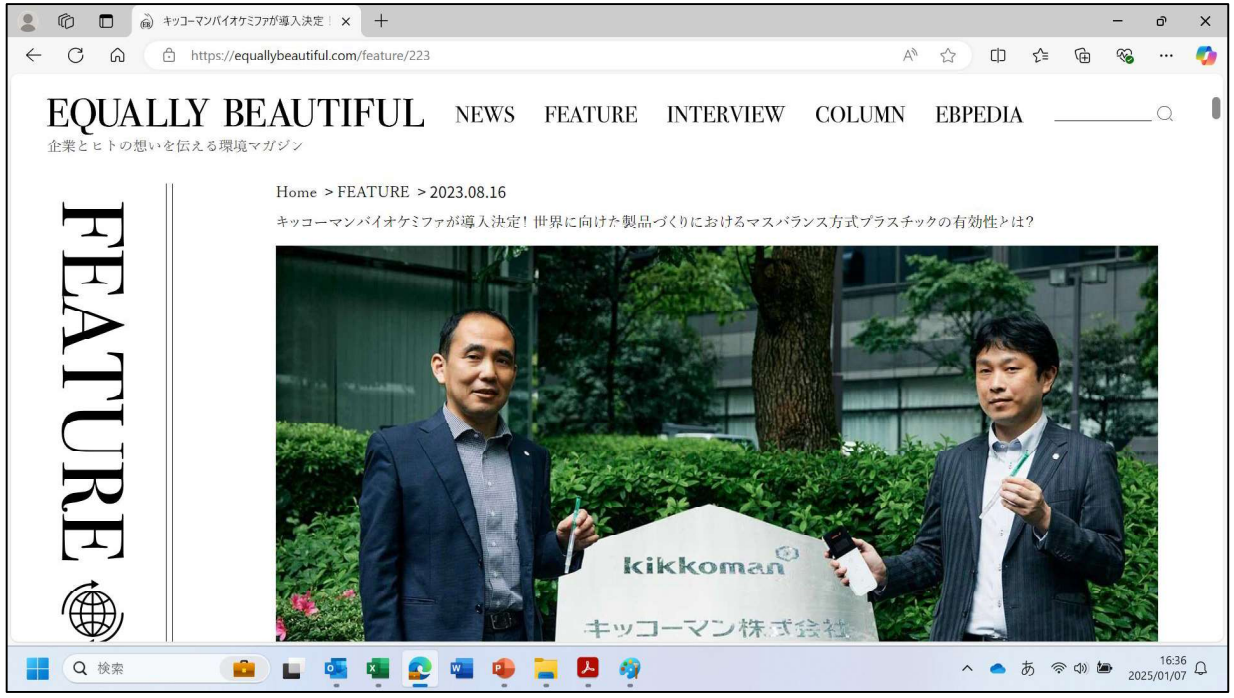
欧州における存在感
Strong presence in Europe

現実的なアプローチ
Feasible and realistic approach



コミュニケーション　Communication

Equally Beautiful
コントラプントが運営し、伊藤忠商事が
スポンサーしている環境WEBマガジン



Online medium supported by ITOCHU for presenting eco-friendly efforts in many fields

日本語
https://equallybeautiful.com/feature/223

English
https://equallybeautiful.com/238

16 Aug 2023

コミュニケーション　Communication

SMSを通して持続可能性の取り組みを拡散

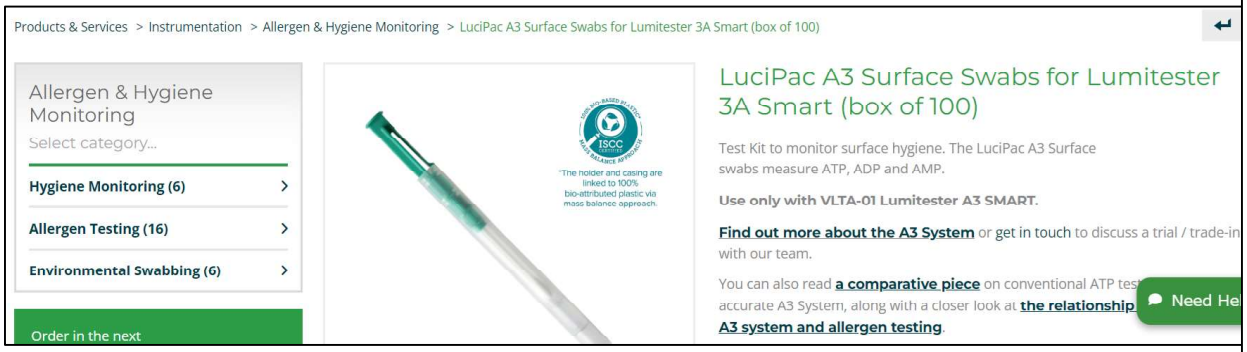
Promoting environmental sustainability through social media

Linkedin newsletters
(21 Sep 2023)

Linkedin・Facebook・Instagram (Nov 2023)

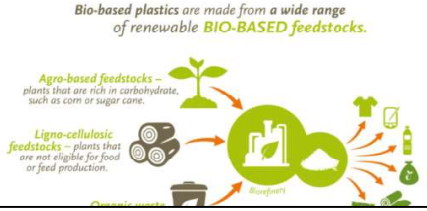
Linkedin
https://www.instagram.com/kikkoman_biochemifa/
Facebook
https://www.facebook.com/kikkomanbiochemifa
Instagram
https://www.instagram.com/kikkoman_biochemifa/

コミュニケーション　Communication



ALL Kikkoman Surface and Water test kit plastic is now 100% Biomass-Based Polypropylene...

ISCC (International Sustainability and Carbon Certification) is a sustainability certification widely adopted mainly in Europe. By having companies that manufacture, process, and sell products linked to certified raw materials such as biomass-based and recycled materials obtain this certification from upstream to downstream of the supply chain, the certification ensures the reliability of traceability from raw materials to products.



Lucipac: Embracing Sustainability

In a groundbreaking move towards sustainability and eco-friendliness, Kikkoman Biochemifa Company has announced its adoption of biomass-based polypropylene for its renowned LuciPac series. Starting from September 2023, Kikkoman Biochemifa Company is set to replace conventional petroleum-based polypropylene used in its ATP Test reagent, LuciPac (Kikkoman A3), with 100% biomass-based polypropylene. This shift is made possible through the mass balance approach, a method that ensures traceability and sustainability throughout the supply chain. The company's decision to adopt this innovative approac highlights its dedication to reducing its carbon footprint and promoting a circular economy.

What is Biomass-Based Polypropylene?

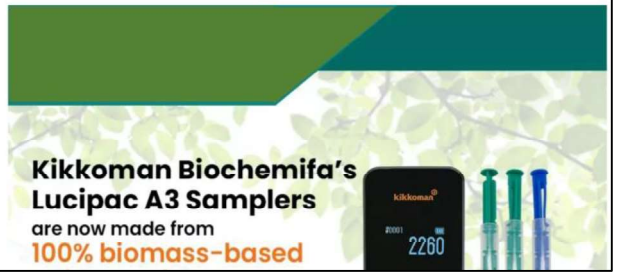
The biomass-based polypropylene being utilized by Kikkoman Biochemifa Company is sourced from SK geo centric Co., Ltd. in Korea. This innovative material i

Revolutionize Hygiene Monitoring with LuciPac A3 Swabs: Now Made More Sustainable!

Together, we can make a positive impact on the environment, one swab at a time.

Kikkoman Biochemifa, a leading innovator in hygiene monitoring systems based in Japan, took a significant step towards environmental sustainability with the LuciPac™ A3 swabs. These swabs utilizing A3 Technology (ATP + ADP + AMP) are used in tandem with Lumitester™ Smart, which ensures highly accurate results and superior detection compared to other ATP-based hygiene and monitoring systems.

Demonstrating a high level of environmental awareness, Kikkoman Biochemifa is now committed to creating world-class products with a minimized carbon footprint. This commitment is evident in their decision in September 2023 to transition LuciPac™ A3 swabs from petroleum-based



どうもありがとうございました

Thank you very much