

**Campo Honeysuckle Flowers Anti-Viral, Anti-Microbial Biostatic Essential Oil and Campo Honeysuckle Flowers Anti-Viral, Anti-Microbial Biostatic Floral Hydrosol, are both in Traditional Chinese Medicine and in Tamil Siddha Medicine used as Very Potent Nasal & Respiratory Tract Decongestants, and both have been tested in A Level 6 Bio-Security Laboratories, for Minimum Inhibitory Concentration (MIC) and the Rapid Lethal Dose / Time (RLD/T).**

**Campo Honeysuckle Flowers Anti-Viral, Anti-Microbial Biostatic Essential Oil – MIC @ 0.015 w/v at less than <60 Seconds RLD/T against all Gram Negative Viruses and Gram Positive Viruses, including of against ssRNA & dsRNA Corona Wild & Corona tsRNA S Culture Lab viruses, against Retroviruses HIV-1 & HIV-2 and as well as an extreme potent microbial biostatic against all known gram negative and gram positive germs, yeasts and molds.**

**Campo Honeysuckle Flowers Anti-Viral, Anti-Microbial Biostatic Floral Hydrosol, similarly exhibits MIC @ 0.950 w/v, at less than 90 Seconds RLD/T against all Gram Negative Viruses and Gram Positive Viruses, including of against ssRNA & dsRNA Corona Wild & Corona tsRNA S Culture Lab viruses, against Retroviruses HIV-1 & HIV-2 and as well as an extreme potent microbial biostatic against all known gram negative and gram positive germs, yeasts and molds.**

**Campo Honeysuckle Flowers Anti-Viral, Anti-Microbial Biostatic Essential Oil and Campo Honeysuckle Flowers Anti-Viral, Anti-Microbial Biostatic Floral Hydrosol, both Honeysuckle Flower Extract(s) ingredients are recommended as Holistic Botanical Aromatherapy Active Ingredients as Sanitizing Aerosol Sprays, Hand Sanitizers and General Sanitizers.**

The other **Campo Natural Multi-Functional Active Botanical Ingredients**, in the **Campo's & Kampoyaki's Re-Circular Economy**, (Value-Added Utilization of Botanical Waste-Stream) (of INCI Names) **Lonicera Japonica (Honeysuckle) Flower Extract (AND) Lonicera Caprifolium (Honeysuckle) Flower Extract**, with **negligible insignificant Low MIC but with Instantaneous RLD/T are:** Campo Honeysuckle Flower Propolis Resin Extract, Campo Honeysuckle Bio-IPD, Campo Plantservative WSR, Campo Plantservative WSR-JCF, Campo Plantservative WSR PPF, Campo Plantservative PWSR, Campo Plantservative WS, Campo Plantservative PWMR, Campo Plantservative WMr (Jojoba), Campo Plantservative WMr (Bio-IPM), Campo Plantservative WM

**Campo Honeysuckle Flowers Anti-Viral, Anti-Microbial Biostatic Essential Oil and Campo Honeysuckle Flowers Anti-Viral, Anti-Microbial Biostatic Floral Hydrosol are extensively widely used in As Branded Preservative(s) in Bio Life Sciences, Bio-Diagnostic, Vaccines, Heparin Preservation & Blood Serum Products**

### CAMPO Honeysuckle Anti-Viral Essential Oil

Aromatic Potent Decongestant of Mucus Purulent of Nasal, of Respiratory Tracts, of Sinus <0.015% w/v MIC - <60 Seconds RLD against ssRNA & dsRNA Corona Wild & tsRNA S Lab Cult. viruses, and Retroviruses HIV-1&2

**Broad Spectrum Anti-Viral  
Broad Spectrum Anti-Microbial**



**Campo Honeysuckle Anti-Viral Essential Oil  
Botanical Aromatherapy Cosmetics**

A potent aromatic decongestant of Mucus & Muco-Purulent secretions liquifying of Nasal, of Respiratory Tracts, of Sinus @ minimum inhibitory concentration (MIC) 0.015% w/v -MIC at- rapid lethal dose (RLD) of less than < 60 seconds as Broad Spectrum Anti-Viral

Including of against ssRNA & dsRNA Corona Wild & Corona tsRNA S Culture Lab viruses, against Retroviruses HIV-1&2 and a potent microbial biostatic against all known gram negative and gram positive germs, yeasts and molds.

A water soluble aromatic honeysuckle floral hydrosol – of pure botanical floral water of crystallization is available too.

A water soluble aromatic honeysuckle floral Anti-Viral-Anti-Microbial hydrosol – of pure botanical floral water of crystallization is available too.



CAMPO RESEARCH (S) PTE LTD | KAMPOYAKI HERBS PTE LTD  
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bala@kampoyaki-research.com | www.kampoyaki-research.com | www.kampoyaki-research.org

### CAMPO Honeysuckle Anti-Viral Hydrosol

Aromatic Potent Decongestant of Mucus Purulent of Nasal, of Respiratory Tracts, of Sinus <0.90% w/v MIC - <90 Seconds RLD against ssRNA & dsRNA Corona Wild & tsRNA S Lab Cult. viruses, and Retroviruses HIV-1&2

**Broad Spectrum Anti-Viral  
Broad Spectrum Anti-Microbial**



**Campo Honeysuckle Anti-Viral Hydrosol  
Botanical Aromatherapy Cosmetics**

A potent aromatic Hydrosol Honeysuckle Flowers Botanical Floral Water of Crystallization Decongestant of Mucus & Muco-Purulent secretions liquifying of Nasal, of Respiratory Tracts, of Sinus @ minimum inhibitory concentration (MIC) 0.90% w/v - MIC at- rapid lethal dose (RLD) of less than < 90 seconds as Broad Spectrum Anti-Viral

Including of against ssRNA & dsRNA Corona Wild & Corona tsRNA S Culture Lab viruses, against Retroviruses HIV-1&2 and a potent microbial biostatic against all known gram negative and gram positive germs, yeasts and molds.

A highly potent Anti-Viral & Anti-Microbial Bio-Static water soluble aromatic honeysuckle floral hydrosol – of pure botanical floral water of crystallization

The 100% Honeysuckle Flowers Essential Oil as an aromatic honeysuckle floral Anti-Viral-Anti-Microbial Essential Oil – is available too.



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KAMPOYAKI ® Novel Functional Active Cosmetic Botanical Ingredients & Raw Materials

KAMPOYAKI ® MIL-SPEC (MILITARY SPECIFICATIONS) BOTANICALS

Supporting Partner Supplier of Natural Plants Phyto-Chemistry, Bio - Chemistry of APIs (Botanical Active Pharm. Intermediates) of American Bio-Pharmaceutical Companies <https://innovation.org/>

Supporting Partner Supplier of Natural Plants Phyto-Chemistry, Bio-Chemistry of APIs (Botanical Active Pharm Intermediates) of American Botanical Drug Association <http://www.botanicaldrug.org/>





**Botanical Green Preservatives Like , Campo Plantservatives™ ,**

**21 CFR, parts 710 and 720.FDA 2511. FDA 2512. 21 CFR, parts 710 and 720.FDA 2511. FDA 2512**

Super-Critical CO<sup>2</sup> extracted Simple Natural Gravity Flow Fractionation Botanical Extract (INCI) [Lonicera Japonica \(Honeysuckle\) flower extract CAS223749-79-9, INCI I.D:9690](#) and [Lonicera Caprifolium \(Honeysuckle\) Flower Extract CAS84603-62-3, INCI I.D:8845.](#)

**Compliant: [US FDA-HHS-EPA TSCA CAS8023-93-6 | DTXSID8093734.](#)  
[US FEMA#4690. US. GRAS PUB#25.](#)**

**Compliant: [P.R.O.CHINA COMPLIANT FOOD ADDITIVES GB9685.](#) standard GB2760-2011  
[China: Standards for Uses of Food Additives \(Part 1\).](#)[China: Standards for Uses of Food Additives \(Part 2\)](#)**

**Compliant: [ISO 21149:2017. ISO 21149:2006, ISO 16128-01 & ISO 16128-02. ISO 17516:2014, ISO 11930:2019](#)**

**Campo Plantservatives'** multi-functional efficacious [activities of alternative preservation](#) of various industries – ([various Trade Name\(s\)](#)) in [poultry](#), animal breeding, slaughter houses sanitization, [botanical food supplements](#), [gas-oil fracking recovery liquid](#), ([Fracking Biological Microbes Infectious Dangers](#)) in [life sciences e blood & serum products](#), and in [botanical warfare defenses](#), with broad p.H range **2.5 to 12** with broad spectrum disinfectant against gram negative and gram positive, fungal-fungi spores and anaerobic endospores-anaerobic exospores.

[Endospores](#) - Anaerobic [spores- dormant invisible](#) in cosmetic products as [bio-burden](#) do not affect the formulations' nor disintegration nor spoil them, but carry the [bio burden spores as pathogens](#) that cause serious even deadly infections, when applied to human skin and human hair.

The Honeysuckle's [Aldose Sugar Group\(s\)](#) functions saccharolysis e saccharolytic mimic as of the [N4-Calcium DPA cross linkages pathways](#), of a tough outer layer of keratin, that is resistant to chemicals, staining and heat, that enable the spores to survive decades, centuries, even millennium, via desiccation and damage bursting of bacterial endospores, as well as mimics functionality characteristic as of [Dipicolinic acid \(pyridine-2,6-dicarboxylic acid-PDC- DPA\)](#), acts anti-functions as antigen breaching and as localized specific bio-thermite (bio-mimic Al+Iron Oxide).

But more exact localized specific [bio-thermite Al+ iodine pentoxide reaction](#)-of the PDC- DPA chemical compound's role in the heat resistance of the decades or centuries old dormant endospores in hostile environment. Almost all of [Botanical Raw-materials](#) for [Natural Cosmetics -Topicals](#) carry Invisible Bio Burdens, that cannot be eliminated by [INCI Annex Listed standard preservatives \(Annex V\)](#) nor via autoclave that disintegration the [Botanicals.](#)

[Campo's pioneer botanical green preservatives](#) were tested viable successfully with all [ATCC](#) listed entities over three decades, as potent botanical warfare defenses material-but a [USDA Listed Alien Weeds.](#)

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## BOTANICAL GREEN PRESERVATIVES-LIKE

### WITHOUT PREJUDICE

The above mentioned product is manufactured with 100% Natural Vegetal Origin. Campo Plantservative Wsr do not contain the [EU ALLERGENS](#) nor [Other Allergens](#), as Listed and as Assayed - In Full [ICCR](#) Compliant to AND In Full Compliant to PRO CHINA [CSAR](#) of "No Toxic -Fatalities Causing **Bio-Invisible Endo Spore(s) Microbials (NO) Presence** Of In Cosmetics-Topical Brand(s) Imported From EC, USA & Japan and Marketed & Sold In China:-

ICCR4 -2021 - microbiome and cosmetics - survey of products ingredients terminologies and regulatory approaches.pdf" at:

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:9538347e-942d-4c1c-a64d-9f9c11caf11f>

"ICCR the importance of preservative in cosmetics products infographic.pdf" at:

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:58a23dea-c4e6-49f9-a796-84e144f52cda>

"ICCR Working Group on Cosmetic Product Preservation.pdf" at:

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:1e56f714-17f9-46df-aa58-23ab5d8794be>

"2019-10 overview of key scientific elements and principles - preservatives.pdf" at:

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:9e11f032-b579-4571-a3ff-0c556c2074ae>

**Campo Reserve The Rights to bring such Fraudulent False Claims to the Notice of the relevant authorities, in whichever countries or multiple cross borders countries relevant authorities and to the Attention of The Consumer Safety Protection Green Groups – on their Social Media Platforms.**

"2020-12- updated annex of report international standards in cosmetics.pdf" at: <https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:6724f4d6-bb9-446f-b39d-88e723a07474>

The Genetic Analysis of Botanical DNA Core Standards of Each Plant species to guarantee the botanical authenticity, geographical origin, ensuring the traceability, safety, and quality of the natural botanical-Extracts **BOTANICAL DNA CORE STANDARD(S) OF EACH INCI DICTIONARY EDITION 18TH, LISTED PLANT BOTANICAL(S) AND THE PROTOCOL(S) OF GENETIC ANALYSIS AVAILABLE** Guaranteeing the authenticity of plant raw materials for Botanical Natural Cosmetics, Botanical Foods, Botanical Bio-Pharmaceutical, Botanical Bio-Molecules, and Botanical Health-Foods through Plants Botanical DNA-CORE analysis. <https://www.iccr-cosmetics.org/>

**Compliant US.FDA 21 CFR 11 Part (US FDA Revision March 2017) –Botanical Identities– (Natural Cosmetics)**

The Manufacturer Ensure That The Final Users Compliance of The Botanical Material(s) are certified Botanical Material, Botanical DNA Core and Allergens Assayed and The Additive/Addition Level(s) as Declared in the Mandatory Listing Finished Consumer Retail Shelf Products-Consumer Safety-Accordance to [\(ICCR\)](#).

<https://www.fda.gov/cosmetics/cosmetics-international-activities/international-cooperation-cosmetics-regulation-iccr>

### Campo Plantservative Wsr

**FDA 2511. FDA 2512**

## Campo Plantservative Wsr – JAPAN-USE IN USA e CANADA

All of PDF file attachments – are loaded in CAMPO Adobe Cloud Link

**You Can Click (or Copy and Paste the Link on your Browser) and Download AND Save the PDF Files for your Review.**

**Quality Culture: Eliminating Microbes in the Cosmetic Manufacturing Gemba\* (Part I).** [CLICK URL](#)

**Quality Culture: Eliminating Microbes in the Cosmetic Manufacturing Gemba\* (Part I)** ([cosmeticsandtoiletries.com](https://cosmeticsandtoiletries.com)) [CLICK HERE](#)

**Quality Culture: Eliminating Microbes in the Cosmetic Manufacturing Raw Materials\* (Part II).** [CLICK URL](#)

[https://cosmeticsandtoiletries.texterity.com/cosmeticsandtoiletries/may\\_2021/MobilePagedReplica.action?ajs\\_uid=7354E5900023D1Q&oly\\_enc\\_id=7354E5900023D1Q&utm\\_source=newsletter-html&utm\\_medium=email&utm\\_campaign=CT+E-Newsletter+05-06-2021&absrc=img&pm=2&folio=42#pg57](https://cosmeticsandtoiletries.texterity.com/cosmeticsandtoiletries/may_2021/MobilePagedReplica.action?ajs_uid=7354E5900023D1Q&oly_enc_id=7354E5900023D1Q&utm_source=newsletter-html&utm_medium=email&utm_campaign=CT+E-Newsletter+05-06-2021&absrc=img&pm=2&folio=42#pg57)

**Quality Culture: Eliminating Microbes in the Cosmetic Manufacturing BULK PRODUCTION\* (Part III).**

[CLICK HERE https://cosmeticsandtoiletries.texterity.com/cosmeticsandtoiletries/june\\_2021/MobilePagedArticle.action?articleId=1696447&app=false#articleId1696447](https://cosmeticsandtoiletries.texterity.com/cosmeticsandtoiletries/june_2021/MobilePagedArticle.action?articleId=1696447&app=false#articleId1696447)

**JAPAN USA Technical Catalog Campo Plantserveative Wsr Product No# 95-180-3004 PLANTWsr,p**

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:6cdd0890-dd09-4aba-a337-8805b34dd196>

**"TDS UN GHS SDS Campo Plantserveative Wsr -P# 95-180-3004 PLANTWsr,p 2021.pdf"** at:

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:2990ab88-c0f3-4de9-aa4c-427846bef289>

**JAPAN USA 2021-Vegetal Origin -ISO GIGRA NO ALLERGENS - Campo Plantserveative Wsrp"**

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:6f193c5a-f8f1-465d-808b-2439a6b16d5b>

**"Reprint.PLANTSERVATIVE.Pg107-123 Jn Cos Science March-April 2010.pdf"**

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:ed5d66c5-32fa-4474-9861-534917151cd8>

**Personal Care Article Honeysuckle - Barbara Oliosio PersonalCare.pdf"**

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**"report result - ref 14 a 052017 Moisturization of stratum corneum assay.pdf"**

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:c8334ecf-2c43-4994-a0b8-2201e3cad0c3>

**"report results- ref 14 b 092017 mositurization of stratum corneum.pdf"**

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:472830d2-14f0-4426-8a55-b2bfb774b69c>

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**"INSTRUMENTAL EVALUATION OF SKIN HYDRATION AND SKIN DEEP Wsr hydrating Gel.pdf"**

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**Vitroscreen INVITRO CLINICAL Study Report RS 22-07**

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**Vitroscreen INVITRO CLINICAL Study Reports RS 4-06 (1-2-3)**

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**KRR STANDARD-allergenschecklist 2021.pdf"** at:

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## FEATURED PRODUCT

# Versatile, Nature-derived Preservation

March 29, 2021 Campo Research USA Inc.

<https://www.cosmeticsandtoiletries.com/formulating/function/preservatives/Versatile-Nature-derived-Preservation-574067101.html>



The recipe for successful preservation calls for two main ingredients working synergistically together:GMP and a versatile, effective and easy-to-use preservative system. **Campo Research** has been supplying Plantserveative Wsr (INCI: *Lonicera Japonica* Flower Extract (and) *Lonicera Caprifolium* Flower Extract) for more than 30 years to small and large manufacturers who have utilizedits versatility, broad antimicrobial performance and green chemistry profile.

Completely absent of EC allergens, Plantservative Wsr is upcycled from wildy cropped honeysuckleplants that are classified as weeds. It is also GRAS (GRN No. 13), has a Natural Origin Index of 1 according to ISO 16128 and is COSMOS- and NATRUE-compliant, supporting “100% naturally derived”claims while effectively preserving natural formulas.

Plantservative Wsr is nonionic and thus compatible with cationic and anionic ingredients. It does not impact the sensorial properties of cosmetic formulations, i.e., color and odor, and it imparts antimicrobial protection in a broad pH range (2.5-12), providing reliable protection in several cosmetic applications—including mineral-based products such as sunscreens, clay masks, etc., where the pH drifts to 7 and above.

Plantservative Wsr is also temperature-resistant up to 95°C (208°F), making its addition during different stages of production possible, such as the cooling stage or at the beginning before heat is applied. Heat does not impact its concentration as the ingredient is not volatile. Given its alkaline nature, it is best to pre-neutralize Plantservative Wsr with lactic acid before adding it to the main production vessel.



Visit the website  
+65 6383 3203

<https://www.cosmeticsandtoiletries.com/formulating/function/preservatives/Versatile-Nature-derived-Preservation-574067101.html>

**The first installment of the peer-reviewed article by Kao appears in the April edition of C&T (pp 42-49) along with Campo Research Sponsorship.**

**QUALITY CULTURE – GREEN PRESERVATION PART 1 C&T**

**QUALITY CULTURE**  
Eliminating Microbes in the Cosmetic Manufacturing Gemba<sup>®</sup>  
**Part I: Introduction**

**PRESERVATIVE FOCUS | C&T\***  
This article series is sponsored by Campo Research.

**Editor's note:** *Cosmetics & Toiletries* is pleased to present this four-part series featuring real-life scenarios of microbial contamination that occurred during product manufacturing—and the countermeasures taken. While all proper manufacturing practices may be followed, microbes are still living entities that adapt to survive, finding pathways into products and causing spoilage, contamination or worse. These case studies can serve as a guide to address and prevent microbial contamination during production.

Follow all four parts, including:

- **Part I**, provided here, giving an overview of relevant microbes and their growth conditions;
- **Part II**, coming in May, highlighting case studies in raw materials;
- **Part III**, to appear in June, addressing issues during bulk production; and
- **Part IV**, in September, wrapping up the series with filling and testing.

Thanks go to Campo Research for sponsoring this series.

Sponsored by:  
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Peer-reviewed

Yasukiko Tashima, Ph.D. and Hironori Araki, Kao Corp., Tohigi, Japan  
Masahiko Otsari, Eon Corp., Tokyo  
Rika Suzuki, KOSÉ Corp., Tokyo  
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Masaki Okamoto, Okamoto Microbiology Research Lab., Kitagawa, Japan, and formerly of Shiseido Co., Ltd. and Nishiki Flour Admix Inc.

**M**anufacturers of cosmetic and personal care products must fulfill their dual responsibility to ensure that the presence of microorganisms in within acceptable limits, both in quantity and quality, at the time of purchase by consumers. Companies must also ensure the growth of microorganisms in products does not affect their quality or safety during the intended use. In order to fulfill these responsibilities, preservation system design in product formulations and hygiene control in the manufacturing environment are fundamental—and these two must be highly synchronized.

Therefore, the first goal in product manufacturing is to design an appropriate preservation system for each given formula. Here, it is important to follow international standards such as ISO 11163<sup>1)</sup> and guidelines issued by industry organizations. At the same time, it is important to use an appropriate palette of preservatives and preservation systems.

<sup>1)</sup>The word *gemba* or *genba* is a Japanese word that refers to “the actual place or site where value is created.” In the context of this article, it refers to the holistic environment of cosmetic manufacturing, encompassing more than the facility itself. While *gemba* will be used throughout the article, note that the true meaning is deeper. This article is replete with references to the *gemba*, which appeared in the *Progressive Journal* (in Japanese).

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**QUALITY CULTURE – GREEN PRESERVATION PART 2 C&T**



### **Botanical Oil-soluble Preservation**

**Campo Plantservatives WMr (JOJOBA OIL) - CAMPO-A.I CLOUD 1.5-dated 23 Jan 2021.pdf'**  
<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:b69211cd-8c5e-419c-ac0f-18ab15e85d20>

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<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:9d36216f-24c5-4c8f-9e7f-1bf0a4599126>

### **Vitroscreen Study Report RS 22-07**

<https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:7891cb3e-cfe7-4e67-81da-d950ac13de18>

### **Vitroscreen Study Reports RS 4-06 (1-2-3)**

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## **GREEN CHEMISTRY NATURAL OIL SOLUBLE PRESERVATIVES**

### Oil-soluble Preservation



**Opens in modal lightbox**

Quite often, producers focus on contamination caused by water-based ingredients, taking for granted that oils, being free from water, are fine and safe to use in production. However, oils manufactured under poorly controlled conditions can still carry dormant spores that come to life once in the presence of water during bulk production. This extra microbial load may exhaust the preservative system and even cause other contamination issues in the production plant.

This problem can be prevented altogether by using an antimicrobial that can lower the oil's microbial count to within acceptable limits before its use in production. Perhaps the only oil-soluble, broad-spectrum and naturally derived antimicrobial available to achieve this is **Plantervative WmR Jojoba**, from Campo Research.

This extract is derived through green chemistry from wildly cropped honeysuckles (*Lonicera japonica* and *Lonicera caprifolium* in jojoba oil) sourced via a reliable and sustainable supply chain.

**Plantervative WmR Jojoba** is compliant with COSMOS and Natrue standards, and holds vegan accreditations. The ingredient is effective between pH levels of 2 and 12, and can withstand temperatures as high as 95°C or 203°F, giving great flexibility of use and incorporation.

**Plantervative WmR Jojoba** can also be used as a preservative booster in the oil phases of emulsions, as well as in facial oils and other oil-based cosmetics.

For more information or to request a sample, visit: <http://www.campo-research.com/> [www.campo-research.org](http://www.campo-research.org)

## Quality Culture Part III: Bulk Production



By: Yasuhiko Toshima, Ph.D. and Hiroyuki Araki, Kao Corp.; Masahiko Otani, Lion Corp.; Ruka Suzuki, KOSÉ Corp.; Jun Usukura, Mandom Corp.; Kohtaro Fujioka, Ph.D., Manda Fermentation Co., Ltd.; Masaki Ookawa, Ookawa Microbiology Research Laboratory

This third installment in our four-part series provides real-life scenarios of microbial contamination that occurred during cosmetic product manufacturing—and the countermeasures taken. [Read More →](#) [Read this article in the digital magazine](#)





## The Green Chemist's Handbook for Cosmetic Preservation v1.0

Thank you for purchasing this e-book. Dra Barbara Oliso ensure you will find it helpful in your formulation work



**Dr Barbara Oliso, MRSC**  
**Managing Director, The Green Chemist Consultancy**

✉ [barbara@thegreenchemist.com](mailto:barbara@thegreenchemist.com)

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Dr Barbara Oliso, MRSC

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Ask about our Herbal Natural Products Chemistry Consultancy Services -Product Registration EEC/UK New Drug Development (NDA-US); Quasi-Drug Topicals (MOHW Japan); Development of Standards, Analysis & Profiles of Phytochemicals; Literature searches, Cultivation of Medicinal Plants, Clinical-Trials, Development of new uses for Phytochemicals and Extracts; Contract Research and Development Work in Natural Products for Novel Drugs, New Cosmetic Active Ingredients for Active Topical/OTC Cosmetic with functionality and Consumer-perceivable immediate- results, New Food Ingredients for Nutraceuticals & Functional Foods. **21 CFR, parts 710 and 720.FDA 2511, FDA 2512. 21 CFR, parts 710 and 720.FDA 2511. FDA 2512 BOTANICAL GREEN PRESERVATIVES**



**GROWING BOTANICAL RED BLOODY MEATS FROM FOOD BOTANICAL PLANTS**



**ISO 9001:2015**  
Certification  
ISO 16128-1 ISO 16128-2-2017 EPA [www.epa.gov/greenchemistry](http://www.epa.gov/greenchemistry)

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**A QUICK SUMMARY OF SERVICES:**

**The relevant tests listed below are studies that KKR performs regularly: (SEE BELOW)**

- *RIPT's- Shared Panel (induction application patches for 24 or 48 hours ) Panel sizes 50/100/200*
  - *Hypoallergenic- 200 subject*
- *Primary irritation (24 & 48 hours)*
- *Follicular Biopsies for non-comedogenicity*
- *Safety in Use (SIU)*
  - *Dermatological, Comedogenicity, Ophthalmology, Pediatric, Gynecological*
- *Ocular Instillation*
- *Sunscreens (US FDA Monograph, Colipa Method, SPF Water resistant, ISO 24444)*
- *UVA Testing (ISO 24442, Broad Spectrum, ISO 24443)*
- *Phototoxicity (PT)*
- *Photoallergy (PA)*
- *Claims*
  - *Moisturization*
  - *Cell Renewal -Dansyl Chloride*
  - *Long Lasting*
  - *Anti-Aging*
  - *AP/Deo testing*
- *Supplement Testing (in Vivo)*
- *Home Panel Consumer user trials*

**These are not all of our capabilities, but it does provide a visual array of services that we can offer you and your company.**

## **Bioinstrumentation and Summary of Services**

**The following is a summary of equipment and services offered by ([KAMPOYAKI ISRAEL LTD](#)) KKR Consumer Research, it is not exhaustive, please enquire for outlines of other services such as anti-ageing, consumer perception trials, market research focus groups, claim support advice, ophthalmological and more.**

- Sebumeter® - Courage & Khazaka (Oiliness)
- Corneometer® - Courage & Khazaka (Hydration/Moisturization)
- Tewameter - Courage & Khazaka (Barrier function)
- Skin-pH-Meter - Courage & Khazaka
- Chromameter - Courage & Khazaka (Color)
- Mexameter® - Courage & Khazaka (Melanin and Erythema)
- Cutometer - Courage & Khazaka (Firmness, Elasticity)
- Solar Simulator – Solar Light Co. (SPF studies)
- Laser Doppler Blood Flow Monitor – Moor Instruments (Blood flow)
- HiScope Fiber Optic Microscope - Hirox

- REPLICA: Silflo
- D-Squame - cured
- Visia-CR – Canfield Scientific
- MarkVu
- Colorimeter (Color)
- Thermal Imaging Camera

## **Digital Photography with Image Management Software:**

Digital photography is another powerful tool for assessing and documenting skin condition. High-resolution digital photographs, with magnification, if appropriate, can be compiled in report form for comparison of before and after product use. Detailed, close-up photographs can be used to visually convey a product's efficacy.

## **Visual and Tactile Grading:**

Visual and tactile evaluations of the skin by a trained assessor, although subjective techniques, are effective methods for determining the condition of skin in terms of irritation, erythema (redness), dryness, appearance of wrinkles, sebum levels, softness, etc. The effect of products on the skin of whole areas of the body, such as the hands, forearms, legs, and face, can be determined.

## **Digital Imaging:**

A quantitative method for analyzing condition of the skin surface is available in the Visioscan<sup>7</sup> VC98, a high-resolution black and white camera with a UVA light source. The UVA light source is wrapped around the camera and evenly illuminates the skin surface. Scales and dandruff appear brightly on the image, while cracks, furrows, and wrinkles have a darker appearance.

The Visioscan<sup>7</sup> VC 98 analyzes the skin surface using a method termed Surface Evaluation of the Living Skin (SELS). SELS is divided into four clinical parameters; 1) SEsm, 2) SEr, 3) SEsc, and 4)

SEw. SEsm is a measure of the smoothness of the skin. SEr is a measure of roughness of the skin. SEsc is a measure of the scaliness of the skin. SEw is a measure of the horizontal and vertical lines on the skin (wrinkles). The images obtained with the Visioscan<sup>7</sup> VC 98 can be saved to a computer disk for future viewing, analysis, or inclusion in a report. Other features of the Visioscan<sup>7</sup> VC 98 is the Sebifix<sup>7</sup> F 16 and Corneofix F20. Then which measures the sebum content of skin quantitatively and qualitatively by means of a brief (30 second), glue-free skin contact, thereby reducing occlusion of the skin and any resulting effects.

## **Total Moisture Content:**

The TC 350 Corneometer<sup>7</sup> is an instrument that measures the water content of the upper layer of the stratum corneum or skin surface using capacitance. This instrument has been widely used for hydration measurements of healthy and pathological skin conditions and for quantitative assessment of the efficacy of various moisturizing products. The TC 350 Corneometer<sup>7</sup> is ideal for measuring skin moisturization effects of a product that uses humectant properties and actives.

## **Transepidermal Water Loss:**

The TC 350 Tewameter<sup>7</sup> is an instrument that measures the rate of water loss through the skin (transepidermal water loss, or TEWL), which is an indication of the water barrier function of the skin. TEWL measurements are an excellent screening technique for early signs of skin irritancy and skin barrier damage. Irritants, such as detergents and solvents, damage the skin by removing the natural water-retaining lipids that provide an integral part of the skin barrier function. This leads to an increased TEWL rate, which can be monitored using the instrument. This can be used to determine the emollient properties of a product.

## **Melanin and Erythema Measurements:**

The Mexameter MX 18<sup>7</sup> is an efficient instrument for measurement of the melanin and erythema indices of the skin under a variety of physiological, pathological, and experimental conditions. Measurement is based on light absorption. The Mexameter MX 18<sup>7</sup> enables quick, accurate and reproducible determination of skin color and condition. The device specifically measures the content of melanin and hemoglobin (erythema) in the skin which are responsible for the skin color.

Any change in the skin color or any formulation of erythema can be monitored. The Mexameter MX 18<sup>7</sup> is ideally suited for the determination of the redness potential, skin color (damage), and improvement in appearance of skin pigmentation properties resulting from product use.

**End-User Product Evaluations:**

While a product may have excellent objective performance and efficacy as determined by independent measures, an extremely important aspect of product evaluation is end-user perception and acceptance. Questionnaires can be used to determine the subject's perception of their skin condition before and after product. Questionnaires can also be used to assess acceptability and preferences for product attributes. Comparative studies can be carried out using benchmark or competitive products.

**PERFORMANCE CLAIMS:**

- HYPOALLERGENIC
- **DERMATOLOGIST TESTED**
- OPHTHALMOLOGIST TESTED

**DERMATOLOGICALLY TESTED CLAIM:**

We are able to provide board-certified dermatologists for studies of products requiring "dermatologist tested" claims.

- Improves skin hydration
- Improves moisturization
- Improves skin condition
- Improves skin barrier
- Reduces fine lines and wrinkles (anti-aging)
- Improves texture
- Reduces skin oiliness
- Improves skin softness
- Improves rate of skin turnover (desquamation rate)
- Improves skin hydration
- Improves moisturization
- Improves skin condition
- Improves skin barrier
- Reduces fine lines and wrinkles (anti-aging)
- Improves texture
- Reduces skin oiliness
- Improves skin softness
- Improves rate of skin turnover (desquamation rate)
- Reduces dead cells (skin exfoliation)
- Improves appearance of sun damage of skin
- Reduces skin pigmentation variation
- Improves skin luminosity
- Improves skin color/skin tone
- Improves self-tanning color, evenness and application time
- Improves appearance of scars
- Reduces pruritic reaction
- Reduces irritation and erythema (redness)
- Controls skin flora
- Assurance of in-use safety
- Dermatologically tested

**HAIR PRODUCT CLAIMS:**

- |                           |                 |
|---------------------------|-----------------|
| • ANTI-DANDRUFF           | • FRIZZ REMOVAL |
| • STRENGTHENING           | • BOUNCE        |
| • CONDITIONING DETANGLING | • MANAGEABILITY |
| • VOLUMIZING              | • COLOR         |
| • SHINE                   | • FEEL          |

**ORAL PRODUCT CLAIMS:**

- **PLAQUE REDUCTION**
- **ODOR REDUCTION**
- **WHITENING**

Cosmetic claims or personal care product claims, presented as advertisements, can be contested by the Federal Trade Commission, the ASA, and other relevant bodies for the market region, and the manufacturers must have data to substantiate those.

Also, manufacturers may desire testing to determine the relative performance of several formulations the Sponsor has in development or the performance of a formulation comparatively with the products of competitors.

## **FDA REGULATED or NOT!?!?!??:**

Cosmetic products that make no claims that they “change” in any substantive way the structure or functional composition of the human body (or, at least, make claims that are sufficiently vague), they are not “drugs” and are not directly regulated by the FDA.

## **SENSITIZATION TESTING:**

Sensitization testing is conducted using the Modified Draize Test in accordance with the FDA/CDER Guidance for Industry, Skin Irritation and Sensitization Testing of Generic Transdermal Drug Products, December 1999. During the Induction Phase of testing, test materials are applied to skin sites on the upper backs of 200 subjects and patched three times per week for three weeks, the same sites of application each time, for a total of nine applications. Patches remain in place 48 hours at a time on weekdays and 72 hours on weekends. Evaluation and scoring of skin reactions are performed and recorded at the time of each patch removal. The Induction Phase is followed by a Rest Phase of two weeks duration, during which no product applications are performed. Then, during the Challenge Phase, materials are applied to new skin sites on the back and patched for a 48-hour period of exposure, at the end of which patches are removed. The challenge sites are evaluated 30 minutes and 24, 48, and 72 hours after patch removal for evidence of allergic reaction.

## **CUMULATIVE IRRITATION - HRIPT**

### **HUMAN REPEAT INSULT PATCH TEST (HRIPT):**

We perform the Human Repeat Insult Patch Test (RIPT) for cumulative skin irritation in accordance with the FDA/CDER Guidance for Industry, Skin Irritation and Sensitization Testing of Generic

Transdermal Drug Products, December 1999. The method requires that the product and its vehicle be tested, along with a high-irritancy control material and a low-irritancy control material by applying small quantities of the materials to single sites on the skin of the upper back of 30 or more subjects each day for 21 days and occlusively patching each site while the material is wet. The degree of irritation at the sites is scored by a trained evaluator for degree of erythema/vesiculation/peripheral extension each day prior to reapplication of the materials.

## **Method Requirements:**

The method requires that the product and its vehicle (product without active principle) be tested, along with a high-irritancy control material, sodium lauryl sulfate (SLS; also known as sodium dodecyl sulfate, or SDS), and a low-irritancy control material, 0.9% saline, by applying small quantities to a single site on the skin of the upper back of 30 or more subjects each day for 21 days and occlusively patching each site while the applied material is wet.

If the testing is for an ANDA in which bioequivalency data are necessary, a fifth material, the so-called “Innovator patch,” is also tested, and the outcome for the test material is compared with that for the Innovator (i.e., the product already approved to market to which the test material claims equivalency).

The degree of irritation at the sites is scored by a trained evaluator (BSLI personnel and/or a licensed dermatologist, depending on circumstances) for degree of erythema/vesiculation/peripheral extension each day prior to reapplication of the materials. For purposes of FDA approval, the test material must display some level of irritation, but less than that produced by the positive control (SLS). That is, if the product shows no irritating properties, the FDA will declare the results conclusive.

A problem with the FDA requirements for RIPT testing is that test materials be occlusively patched while still wet. Many products used for preoperative and/or preinjection preparation that are quite irritating when patched wet are much less so if allowed to dry prior to patching, and under normal circumstances of use, these products would virtually never be occlusively patched while wet. Even so, the FDA requires that they be tested wet. A common solution to this dilemma is to add a limb to the study in which the product is permitted to dry for some specified period prior to patching the site of its application.

**Note** that the RIPT can be performed in combination with the Modified Draize Test, described above.

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