



QACS, The Challenge Test Lab

Quality Assurance & Control Systems



Presentation 2022
20 Years of Testing Services

QACS Business units



- Chemistry
- Microbiology
- Molecular lab
- Clinical studies
- Regulatory

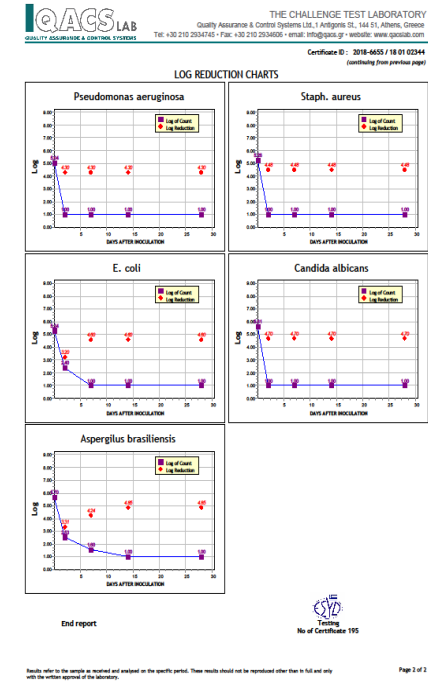
Your Laboratory Partner to **GMP** & **EU** Testing Needs

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Challenge Test

- Protocols
 - ISO 11930
 - EP
 - USP
 - Mixed Culture
 - Re-inoculation
 - Wipe protocol
 - Vegan cosmetic challenge - Growth properties of plant-based media allow the optimal growth of a wide microorganism range.



R&D samples - Small scale batches - Industrial batches



Tolerance Testing-Skin

- Skin: Dermatologically tested

HRIPT - Patch – ROAT Testing



- Conducted on 10 to 50 volunteers
- Various skin types
- Panel customization based on product needs
- Experienced and qualified support by Dermatologists, Cosmetologists/Aestheticians
- Compliance with regulatory requirements



Cosmetic claim proof-Eyes

- Eyes: Ophthalmologically tested



- Experienced and qualified support by Ophthalmologists
- Panel customization based on product needs
- Compliance with regulatory requirements

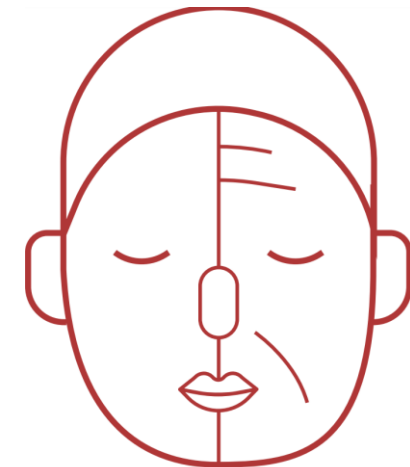


Cosmetic claim proof-Clinical Efficacy

○ Clinical Efficacy – Use tests:

Hair – Body – Oral care

- Moisture
- Anti-Wrinkle
- Elasticity-Texture
- Skin Whitening
- Non comedogenic
- Anti Dandruff
- Porphyrins
- Depilation – Epilation
- Anti Sebum, Sebum Control
- Pores – UV – Brown spots
- Hair testing
- Oral care
- Sensory Analysis



Cosmetic Microbiome Studies



Microbiome Friendly

- Information on product effect towards the skin microbiome.
- Competent in vitro studies offered in rapid turnaround times.
- Claim: skin microbiome is not altered significantly by the product during usage.

Microbiome Balance

- Indicates alterations caused by cosmetics on the skin microbiome.
- Balance studies substantiate **retaining** or **restoring** natural balance claims.

Packages	Basic	Standard	Premium
Panel of volunteers	X	X	X
Microbiological & Physiological	X	X	X
Microbiological Identification		X	
Next Generation Sequencing			X



Restricted substances

Pyrrolizidine

Acrylamide

Phthalates

Benzopyrenes

Allergens



Heavy Metals

Benzene

Heavy metals

1,4-Dioxane

Nitrosamines

Alkaloids

Polycyclic Aromatic
Hydrocarbons

Furocoumarins



Packaging Compatibility

- Overall Migration
- Specific Migration
- NIAS Screening (Non Intentionally Added Substances)
- Extractables & Leachables studies
- Mechanical properties
- Functional properties



Stability Studies

- Product shelf life
- Product stability– final product is stable when subjected to market conditions in which it is sold and used (distribution e.g transportation, storage and use)

We test

- Chemical physical stability of the contents
- Product – Container Compatibility

Possible interactions between the contents and its immediate container

Regulatory

- PIF
- CPNP
- Label Review
- Safety Assessment
- Toxicological Pre-Assessment
- Sensitizing Potential Assessment
- Toxicological Assessment for Baby Products



In Vitro studies

- Method basis
 - In Vitro Eye Irritation
 - In Vitro Eye Corrosion
 - In Vitro Skin Irritation
 - In Vitro Skin Corrosion
 - In Vitro Inhalation Toxicity test

One Stop Shop on Cosmetics Testing



QACS - Medical Devices testing



- Cytotoxicity
- Sensitization
- Irritation or intracutaneous reactivity
- Systemic toxicity
- Subchronic toxicity
- Genotoxicity



QACS's strengths

- One stop shop
- Variety of protocols in competitive prices
- ISO 17025 accredited
- ISO 9001 certified
- GMP/ GLP compliant
- Real time information on intermediate results
- **24hr sample collection service (EU)**



Contact

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20 Years Laboratory Testing Services

Chemical
Microbiological
Molecular
Clinical
Regulatory