




THE BLUE REPORT

Biotherm's Sustainability Progress Report
2021

BIOTHERM

The data mentioned in this report with this symbol  have been audited by Deloitte.





*"Biotherm comes from water
and we want to give back to it."*

A MESSAGE FROM *Grégory Benoit*, BIOTHERM'S GLOBAL BRAND PRESIDENT

As we entered the United Nations Decade of Ocean Science for Sustainable Development (2021–2030), the need to work together to create a better future for our oceans has never been clearer.

Less than 6% of the ocean is officially protected in any way and the 2020 UNESCO Global Ocean Science Report found that ocean science accounts for on average only 1.7% of national research budgets across the globe¹. Despite the critical role that the ocean plays on our planet's health and climate change regulation, it remains critically under protected and under studied.

At its core, Biotherm comes from water and we want to give back to it. Our story began in 1952 with the discovery of thermal plankton in the French Pyrenees, a microorganism at the origins of life itself. Jeanine Marissal, a visionary young biochemist from Monaco, discovered the remarkable regenerative properties of this plankton springing from its exceptional biological affinity with our skin, which remains today the backbone of Biotherm's skincare solutions.

At Biotherm, we empower people to live in a healthier and more sustainable way by creating more and more eco-conscious skincare that heals the accelerated aging effects of urban life.

In 2012, we created our sustainability program Water Lovers in order to minimize our environmental footprint on water and aquatic ecosystems. It encompasses all aspects of our value chain, from the sourcing of natural

ingredients to formulas and packaging through the end of products' life, and mobilizes a global community of Water Lovers — NGOs, artists, and citizens committed to creating a better future for our oceans.

After a decade of strong commitments, and as we celebrate the 10th anniversary of our Water Lovers sustainability program, we are continuing our journey and going a step further. We are proud of our achievements and the ways that we have innovated to reduce the environmental footprint of the brand. But we need to do more. We believe in doing more than limiting our environmental impact — we need to leave our Ocean better than we found it. We call this journey becoming Ocean Positive.

Becoming Ocean Positive is not something that can happen overnight; it is about making sure that we are always improving on where we were yesterday. We have set ourselves ambitious sustainability targets for 2025 and 2030 across our entire value chain. This is a journey that we are taking with our partners to help us progressively transform from a committed brand to a fully sustainable one. We believe that beauty can — and should — have a positive impact on our ocean.

I invite you discover our first Blue Report as we chronicle our journey towards becoming Ocean Positive by 2030.

Grégory Benoit

¹ UNESCO. *Global Ocean Science Report 2020*.

² PLATEFORME OCÉAN ET CLIMAT, 2019, Plaidoyer : Un océan en bonne santé, un climat protégé.

AGENDA



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Blue Beauty: Biotherm's Sustainability Philosophy



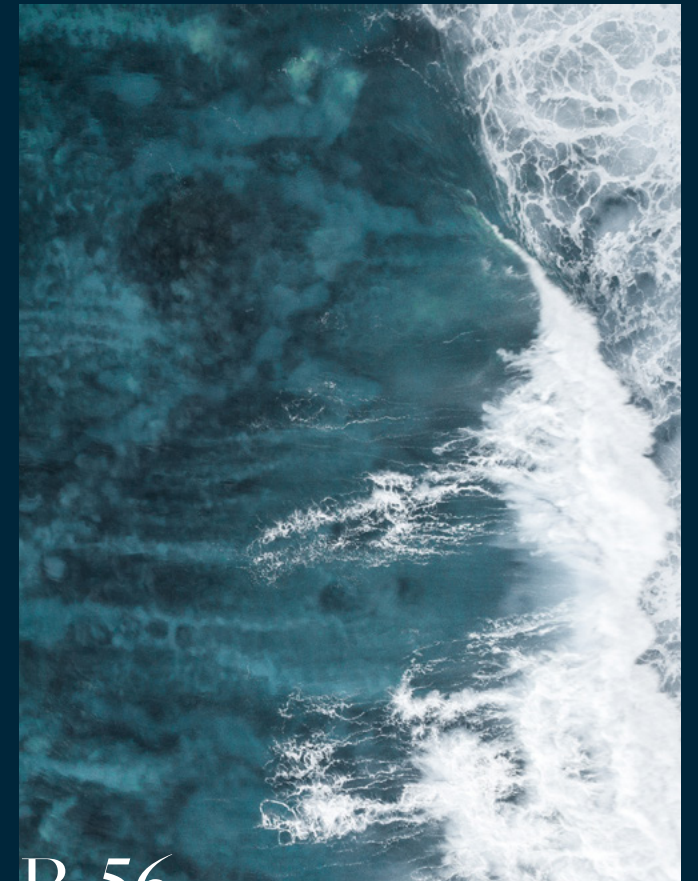
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Biotherm's Water Lovers Action Plan

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Progress For The Ocean

BLUE BEAUTY



Blue Beauty: BIOTherm'S SUSTAINABILITY PHILOSOPHY

Blue Beauty is making waves in the beauty industry.

Blue Beauty takes a holistic view of beauty focusing on the entire life cycle of a product, including its routine, production, packaging, use phase and end of life. It adds a new layer of consciousness of the role that a circular economy¹ must play in the beauty industry to minimize any potential impact on the health of our planet and in particular its Blue Lung, the ocean.

Biotherm's Blue Beauty philosophy encompasses all aspects of the brand's value chain, from the sourcing of natural ingredients to product formulation to packaging design, in order to minimize the brand's environmental footprint on water and aquatic ecosystems. Moreover, it aims to continue mobilizing a global community of Water Lovers: NGOs, artists, and citizens committed to creating a better future for our oceans.

¹ To learn more on circular economy, see page 37.

BIOTherm HAS ORGANIZED ITS WATER LOVERS SUSTAINABILITY PROGRAM INTO THREE PILLARS

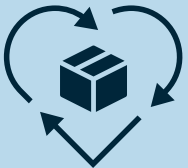
MORE BIOSCIENCE FORMULAS

By drawing on the brand's expertise in Bioscience, Biotherm crafts its formulas to be more respectful of marine and aquatic life, from sourcing ingredients to end of life.



MORE SUSTAINABLE DESIGN SOLUTIONS

Biotherm strives to use sustainable materials and processes at every step of a product's life cycle, from production to packaging to retail. To contribute to limiting the plastic pollution in the oceans, the brand is innovating to introduce more and more circular economy principles into its packaging, from including more recycled materials in packaging to disruptive consumer experiences like refillable and rechargeable products.



MORE ACTION FOR OCEAN PRESERVATION

Biotherm is empowering a global community of Water Lovers to contribute to supporting ocean preservation and in particular the UN's 30x30 Initiative — an ambitious international project to officially protect 30% of the ocean by 2030 to protect earth's biodiversity in the face of climate change.



WATER LOVERS





Our Commitments & ACHIEVEMENTS

More Bioscience Formulas



2021

100%
of Biotherm's new suncare formulas are more respectful of aquatic life.

In 2021, 71% of Biotherm's ingredients in its formula were biobased or derived from abundant minerals.

The mean biodegradability of Biotherm's skincare formulas was 79%.

2030

100%
of formulas will be more respectful of aquatic life.

95% of Biotherm's ingredients in formulas will be biobased, derived from abundant minerals or from circular processes.

The mean biodegradability of Biotherm's formulas will be 90%.

Information audited, see details p.61.

More Sustainable Design Solutions



2021

+ 60%
of the plastic used in our bottles comes from recycled sources.

100% of Biotherm's production sites are carbon neutral.

Biotherm's biotech plant in Tours, France, is carbon neutral.

59% of recycled materials and 50% recyclable materials in all Biotherm physical points of sale.

100% recycled paper, FSC paper, & plastic-free gift boxes.

2025

100% fossil-free plastic packaging ambition across the brand, by replacing virgin fossil-based plastic with alternatives, including recycled or biobased materials.

100% of our plastic packaging will be refillable, reusable, recyclable or compostable.

100% of our new displays will be eco-designed, taking into account circular economy principles for end-of-life management, and 100% of our new Free-Standing Stores will be designed and built following our sustainability principles.

2030

100%
of our packaging will be plastic circular.

More Action For Ocean Preservation



2012

Creation of Biotherm's Water Lovers sustainability program, committed to a better future for the oceans.

Beginning of the long-term collaboration with Mission Blue to support ocean preservation through Hope Spots, marine areas critical to the survival of the ocean.

2017

Biotherm partnered with the Tara Ocean Foundation, a research organization dedicated to the study of the impact of climate change on the oceans.

2020

Biotherm partnered with Surfrider Foundation Europe to raise public awareness on the negative environmental impacts of ocean plastic pollution and scale its beach cleaning operations.

2021

17 million km²
of marine areas protected across the world since 2012 with NGO partner Mission Blue.

Biotherm became Major Executive Partner of the Oceanographic Institute of Monaco to supporting the Oceano's actions for the ocean's protection.

Biotherm's support to Surfrider Foundation Europe helped bring together nearly 20,000 participants across 540 beach cleanings, collecting over 465m³ of waste across Europe.

2030

To support the United Nation's 30x30 Initiative, we commit to preserve more marine areas.



Interview With Dania Blin, Biotherm Sustainability Director

What do you do at Biotherm to limit your environmental impact?

At Biotherm, we have been Water Lovers for decades. Since 2012, we are working on reducing our product footprint with our program by acting on our formulas and our design solutions, which include packaging of course but also retail. We have been leading the way thanks to sustainable innovations such as with our partnership with Carbios, allowing us to use new generation of biorecycled plastics. We have also built partnerships with 4 different NGOs to have a concrete positive action on the Ocean by contributing to the preservation of marine areas, to research and to consumer education.


But today, it is not enough. We have to go further with the next step of our Water Lovers journey. That's why we have an ambitious new goal for the next decade: becoming Ocean Positive by 2030.


Can you tell us more about this new goal Becoming Ocean Positive by 2030?

Becoming Ocean Positive by 2030 means going beyond ameliorating our footprint and striving for an overall positive impact of the ocean. We have to drive a positive change and work hard to leave a positive trace.

We are taking our Water Lovers action pillars a step further to reach our goal: more Bioscience formulas, taking us from our new suncare formulas more respectful of aquatic life in 2021 to 100% of our products more respectful of aquatic life by 2030; more sustainable design solutions, to go from more than 60% of the plastic used in our bottles coming from recycled sources in 2021 to 100% plastic circularity by 2030, and more action for ocean preservation to concretely act positively on the ocean by accelerating from our contribution to protect 17 million of ocean square kilometers to contributing to the protection of 30% of the ocean by 2030.

On what is based this methodology?

This goal has been defined and worked on a global and complete methodology that we built with our environmental experts in packaging, formulation, environmental footprint and with the support of our 4 NGO partners with whom we collaborated along the way. 

 Information audited, see details p.61.
Deloitte carried qualitative interviews to validate the quality of the information published regarding Becoming Ocean Positive roadmap (definition, methodology and milestones) to becoming Ocean Positive by 2030 presented in our Sustainability Progress Report 2021.



More Bioscience Formulas

Biotherm uses high-performing renewable ingredients to create efficacious skincare formulas that are effective on skin and eco-conceived. By drawing on the brand's expertise in bioscience, Biotherm crafts its formulas to be more respectful of marine and aquatic life, from sourcing ingredients to end of life.

For years, Biotherm has closely monitored the impact of its skincare formulas on aquatic life. The brand created a Water Lovers formulation charter in 2019, aimed at reducing the potential impact of its formulas on water, and based on very strict requirements in terms of ecotoxicity, biodegradability and increased use of ingredients formulated through more sustainable bioscience processes. Since 2019, all Biotherm's new skincare formulas are created in line with this strict formulation charter to be designed to be more respectful of aquatic life.

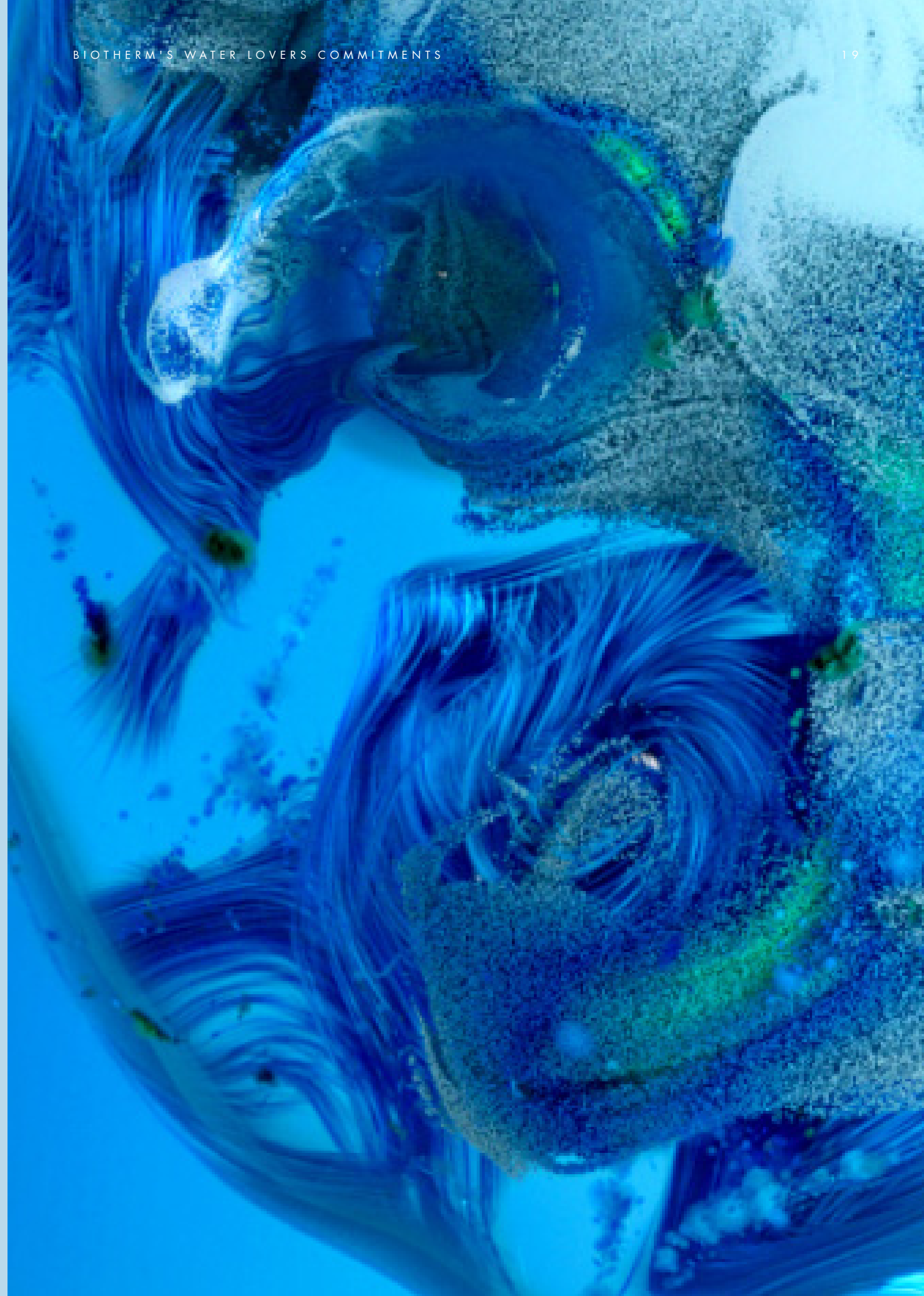
One way that the brand measures the environmental impact of its products is via the Waterlife 7 environmental testing platform. This platform evaluates a formula or ingredient's impact on 7 different species that embody the diversity of aquatic life, such as bacteria, phytoplankton, and coral. These tests consist of closely examining the interactions between these species with ingredients or formulas and monitoring the effects. Since 2019, all of Biotherm's new suncare formulas are tested and evaluated on the Waterlife 7 testing platform in order to ensure that these formulas have minimal impact on aquatic life.

GOAL

100%
of our formulas more respectful
of aquatic life

Since 2019, 100% of Biotherm's new suncare formulas evaluated on Waterlife 7 environmental testing platform are more respectful of aquatic life.

By 2030, 100% of our formulas will be more respectful of aquatic life.



Biotherm's Roadmap

	TODAY	TOMORROW
<i>Ecotoxicity</i>	Since 2019, 100% of Biotherm's new skincare formulas are more respectful of aquatic life.	By 2030, 100% of formulas will be more respectful of aquatic life.
<i>Ingredients</i>	In 2021, 71% of Biotherm's ingredients in its formula were biobased or derived from abundant minerals ¹ .✔	By 2030, 95% of Biotherm's ingredients in formulas will be biobased, derived from abundant minerals or from circular processes.
	100% of new skincare formulas contain Life Plankton, an active ingredient that is 100% natural, 100% renewable, and 100% biodegradable.	By 2030, 100% of the biobased ingredients for formulas and packaging materials will be traceable and will come from sustainable sources.
	Key active ingredients produced with bioscience processes when possible.	By 2030, ≥95% of our ingredients will come from green sciences.
<i>Biodegradability</i>	In 2021, the mean biodegradability of Biotherm's skincare formulas was 79% ² .✔	By 2030, the mean biodegradability of Biotherm's formulas will be 90%.
<i>Progress</i>	Since 2019, all new skincare formulas are created with our Water Lovers Formulation Charter to be more respectful of aquatic life.	
	In 2020, Biotherm received its first Nordic Swan Eco-Label for its Waterlover Sun Milk.	
	Since 2011, zero microbeads in all new rinse off product development.	

✔ Information audited, see details p.61.

¹ According to Biotherm portfolio analysis on biobased ingredients in 2021. Percentage in volume of production.

² According to the OECD 301 test or ISO equivalent.

³ Biodegradability profile of Biotherm portfolio in percentage of volume of production.

Spotlight On Suncare: Protecting Your Skin While Respecting The Ocean

In 2020, Biotherm celebrated an outstanding achievement: obtaining the rigorous Nordic Swan Ecolabel for its Waterlover Sun Milk SPF30 and SPF50. This suncare range, respectful of phytoplankton and other marine life, helps you protect your skin and be more respectful of the ocean at the same time. With a 97% biodegradable base formula and carefully chosen sun filters, the formula was created from over 10 years of research and 200 formulation trials, in which over 150 potential ingredients were screened.

¹ According to the OECD 301 test or ISO equivalent.



About The Nordic Swan Ecolabel



This official Nordic Swan Ecolabel, established in 1989 and supported by all Nordic Governments, is one of the most stringent and recognized certifications from the world's most environmentally conscious Nordic region. With over 30 years of experience and expertise, it has become a global benchmark and a powerful tool to advocate for more environmentally sustainable products.

Eco-Labeled, Eco-Designed

Going beyond its formula commitments, the Waterlover Sun Milk also has eco-designed packaging, including a bottle made with 100% recycled PET plastic.

Skincare Powered by Bioscience

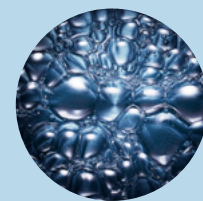
Biotherm's layered approach to Blue Beauty puts bioscience at the forefront of its sourcing strategy for biobased active ingredients. The brand transforms micro-organism like plankton into high-performing skincare ingredients through pioneering biotechnology.



VITREOSCILLA FERMENT

Listed as: *vitreoscilla ferment*

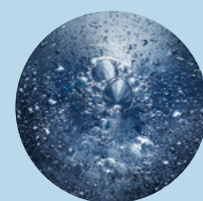
EXCLUSIVE TO BIOtherm



SODIUM HYALURONATE

Listed as: *sodium hyaluronate / hydrolyzed hyaluronic acid*

A STAR ANTI-AGING INGREDIENT



ASCORBIC ACID

Listed as: *ascorbyl glucoside*

LIGHTENS AND BRIGHTENS

LIFE PLANKTON

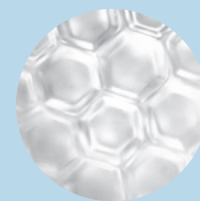
Life Plankton activates skin's natural regeneration functions. Originally sourced from the French Pyrenees, Life Plankton is an ingredient exclusive to Biotherm, recreated through a unique biotechnology method in Biotherm's facility in Tours, France since 1994. It is used in the majority of Biotherm's skincare products, listed under the name *vitreoscilla ferment*.

HYALURONIC ACID

Hyaluronic acid is known to capture up to 1000 times its weight in water, plumping skin with moisture to smooth and comfort. When fragmented, it penetrates even deeper to reduce the appearance of lines and wrinkles. Produced through biotechnology, using a variety of vegetal sources such as wheat and corn, it is used in Biotherm's anti-aging formulas such as Life Plankton Elixir, listed under *sodium hyaluronate* or *hydrolyzed hyaluronic acid* (for fragmented hyaluronic acid).

VITAMIN C

A super skincare ingredient known for its brightening properties, reducing the appearance of dark spots on the skin and fighting the effects of Urban Accelerating Aging. Biotherm's stabilized Vitamin C is produced from potatoes using combination of biotech and green chemistry. It is used in Biotherm's anti-aging products such as Life Plankton Elixir, listed under *ascorbyl glucoside*.



TRITICUM VULGARE

Listed as: *triticum vulgare seed extract / wheat seed extract*

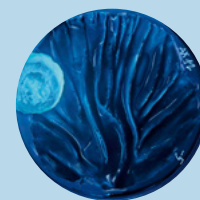
SKIN BARRIER STRENGTHENER



XYLOSE DERIVATIVE

Listed as: *hydroxypropyl tetrahydropyrantriol*

FOR GREATER SKIN DENSITY



APHANIZOMENON FLOS-AQUE

Listed as: *algae*

SKIN REBUILDER

BIOCERAMIDES

Biotherm's bioceramides are rich in essential and nourishing omega fatty acids 3, 6 and 9. Used in skincare, they strengthen the skin barrier and improve pore appearance, making the skin appear smoother. This ingredient is obtained from wheat grown in Europe (more than 98% from France) and processed through green technology via a patented extraction and purification process. It is listed under the name *triticum vulgare seed extract* and *wheat seed extract*.

PRO-XYLANE™

The anti-aging molecule, Pro-Xylane™ preserves skin structure and fights skin sagging, powered by the natural resilience of beech and birch trees. It is synthesized in Biotherm's labs using green chemistry. It is listed in Biotherm's ingredients under the name *hydroxypropyl tetrahydropyrantriol*.

BLUE ALGAE EXTRACT

Extracted from a micro-algae rich in proteins, amino acids, and vitamins with powerful cosmetic properties such as increasing collagen and restructuring aging tissue — making it optimal to smooth wrinkles. Biotherm sources its Blue Algae Extract from Klamath Lake, a rare and protected ecosystem in Oregon in the United States, and harvest during peak reproductive season, with respects to the limits of the lake's ecosystem each year. It is then dried, using a patented biotech technique that ensure the product retains its biological properties without damage. Biotherm uses Blue Algae Extract in our anti-aging products, including Biotherm Homme's Force Supreme Blue Serum, listed as *algae*.

Interview With Johanna Caron, Biotherm Scientific Communications Expert

What is biotechnology?

Biotechnology harnesses cellular and biomolecular processes to develop products that help improve our lives and the health of our planet. As an example, we have used the biological processes of micro-organisms for more than 6,000 years to make useful food products, such as bread and cheese.

Why does Biotherm have a focus on micro-organisms?

The micro-organism, bacteria, was the first form of life on Earth. Micro-organisms are everywhere and they have continuously evolved and shaped our planet. They gave birth to plants, animals, fungus, and accompanied them in their evolution. Their powers are almost infinite.

Life Plankton is a micro-organism that brings together some of these amazing properties. It has been a vital part of Biotherm's formulas since the brand's creation in 1952. For decades, Biotherm's researchers have worked to better understand the science behind this natural ingredient's skin regenerating powers. We have partnered with world-leading research institutions like Stanford University. Our research has led to a variety of patents over the years, of which 8 are still active.

Why does biotechnology especially make sense when talking about micro- organisms?

Micro-organisms have the ability to produce complex molecules, which we do not know how to produce through classical chemistry. They multiply very quickly, generating large quantities of molecules in record time.

The technology that multiplies micro-organisms or harnesses their precious molecules is biotechnology. It is highly sustainable as it does not require solvents, heat or catalysts, only uses renewable sources of energy and produces very little waste.

As early as the 1980s, Biotherm pioneered the use of biotechnology to produce its flagship ingredient, Life Plankton. After 8 years of research, in 1994, we opened our first biotechnology factory, dedicated to the production of Life Plankton. A technology that speeds up plankton's production cycle from six months to only six hours, while retaining its purity and its properties. Highly sustainable, it allows to obtain 10 billion micro-organisms in just one drop from our factory.

Spotlight On Biotherm’s Water Lovers Skincare Formulation Charter: Better For Your Skin And For The Ocean

As an expert in Bioscience and with the most advanced research field for innovation in beauty, for women and men, Biotherm’s Bioscience actives achieve high performances on skin, safety, and sustainability. This ensures that Biotherm designs a formula that meets high standards in terms of efficacy, sensoriality, and eco-conception.

BIOSCIENCE INGREDIENTS

- We use Life Plankton, our key and unique ingredient infused in all the brand’s iconic skincare products. A potent micro-organism that triggers skin’s regeneration and amplifies other potent ingredients. Since 1994 it is produced through sustainable biotechnology.
- We source ingredients from biotechnology in each formula (natural origin, renewable and more respectful of aquatic ecosystems).
- We favor biobased ingredients and raw material derived from abundant minerals or from circular processes.
- All formulas are suitable for sensitive skin¹.

ECO-CONCEIVED FORMULAS & MORE RESPECTFUL OF AQUATIC LIFE

- We target a biodegradability > 90%.
- We target a percentage of natural origin > 90%.
- For new fragrance signature, we develop an eco-designed fragrance, without allergens.
- All our new skincare launches since 2022 are evaluated on our environmental testing platform to be more respectful of aquatic life.

¹ Except Blue Retinol Night Serum.

>90%

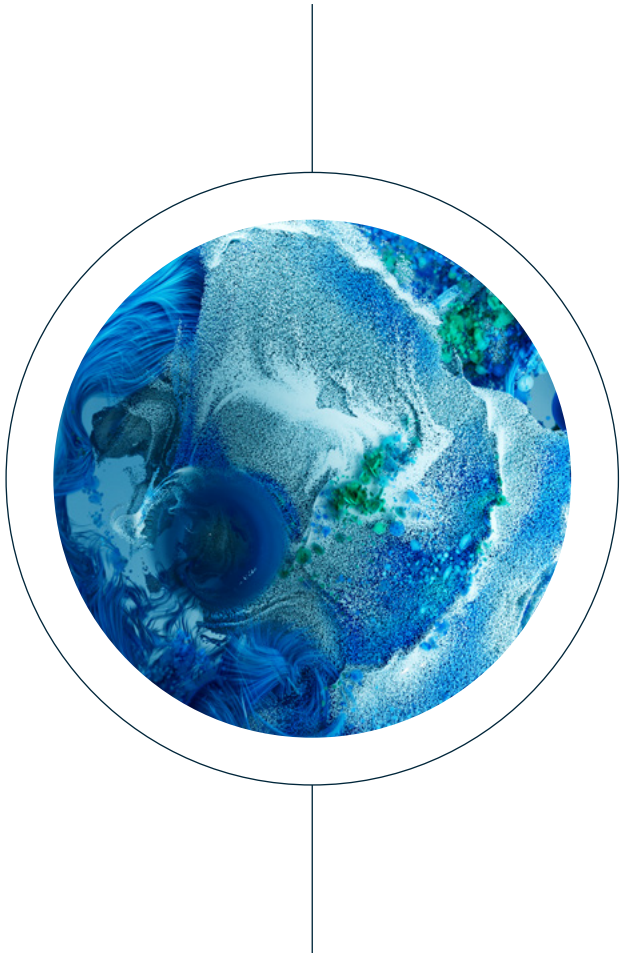
Biodegradability

>90%

Natural origin

What Is Biodegradability?

What Is A Biobased Ingredient?



Biodegradable products are those organic products (containing carbon) that can be biologically decomposed in an aqueous medium by micro-organisms (mainly bacteria, yeast or fungi) producing CO₂ and water.

The term bio-based ingredient or raw material refers to ingredients or raw materials that are entirely or partially derived from biomass (whether or not they have undergone physical, chemical or biological processing), such as plants, trees, animals, the marine world or microbes. By focusing on biobased materials, Biotherm uses bioscience to re-create biological ingredients in laboratories that can be used for skincare through biological processes without having to source from nature.



Interview With Stephanie Cheilian, Director Of Biotherm Skincare Development Laboratory

What factors does Biotherm take into account when creating its skincare formulas?

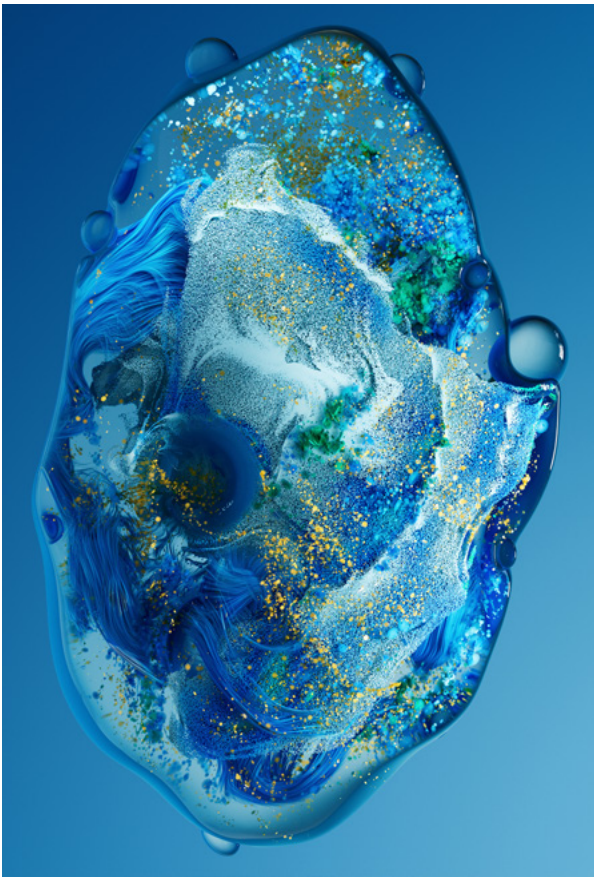
At Biotherm, we have four major guiding principles when we are developing a new skincare formula: naturality, potency, safety, and sustainability. Naturality, because we start every formula on the basis of natural or natural-origin active ingredients like Life Plankton. Potency, because we never accept a trade-off between naturality and efficacy as we work to create the best skincare for our consumers. Safety, because we test our products and ingredients rigorously to ensure optimal skin tolerance. And, finally, sustainability, because we want to make sure that our formulas are both good for consumers' skin and respectful of the planet.

Why is it important to take into account the potential impact of a skincare formula on the environment?

Because, at the end of the day, everything ends up back in our environment. For example, when you take a shower and wash your hair or cleanse your face after a long day some product will inevitably go down the drain. For us at Biotherm, Blue Beauty means acknowledging the potential impact that products can have if formulas end up in the natural environment and the various effects that they can have on our planet.

How does this philosophy impact Biotherm's strategy for new launches?

We use our Water Lovers formulation charter to guide all new skincare launches since 2019. For example, we are launching Blue Retinol serum which combines high expertise in performance with a demonstrated synergy of action and potency between Life Plankton and retinol. This with a high standard in term of retinol stability as well as a best practice in term of biodegradability above 90% and above 88% of natural origin ingredients.



Spotlight On Biotherm’s Biotechnology: A More Sustainable Bioscience Process

Biotherm uses a nature-mimicking and eco-designed biotechnology process first pioneered in 1994 to create its exclusive active ingredient, Life Plankton. This technique perfectly embodies Biotherm’s sourcing philosophy of using bioscience to amplify the power of natural ingredients while being more respectful of nature.

It took 8 years of research and the use of sustainable cutting-edge technology to guarantee a perfect reproducibility and maximized stability of Life Plankton. The biotech process requires a continuous flow of pure water enriched with specific vitamins, minerals, yeasts and plant extracts. Specific equipment is needed as well as 24 hours a day, 7 days a week monitoring by 6 specialists.

100%
Natural
Renewable
Biodegradable

THIS BIOTECHNOLOGY FOLLOWS A 3-STEP PROCESS

1. CRYOCONSERVATION

The only method to preserve the integrity and potency of micro-organisms over time through extreme cold temperatures (-80°C).

2. CONTROLLED NATURAL ACTIVATION

Our biologists replicate the optimum environment for plankton development with rigorous selection of natural raw materials such as vitamins and natural extracts. Sustainable biofermentation: the natural and sustainable power of micro-organisms is scaled up.

3. SUSTAINABLE BIOFERMENTATION

The natural and sustainable power of micro-organisms is scaled up.

The result: 10 billion micro-organisms in a single drop of water produced by our production unit.

10
billion micro-organisms
in a single drop of
water produced by
our production unit



More Sustainable Design Solutions

In line with its Blue Beauty vision, Biotherm strives to use more sustainable materials (including recycled and upcycled materials) at every touchpoint, from packaging to retail. In line with this strategy, Biotherm has pledged to reduce its virgin plastic consumption and support the use of more sustainable alternatives. Since 2019, the brand has a non-fossil approach to all new plastic packaging.

Biotherm aims to ensure that its packaging is designed for a circular economy: recyclable and recycled in practice through clear communication with consumers. By involving all of its stakeholders along the value chain and by being transparent with consumer, Biotherm believes that we can collectively move from traditional 'take-make-dispose' consumption patterns to 'reduce-reuse-regenerate'.

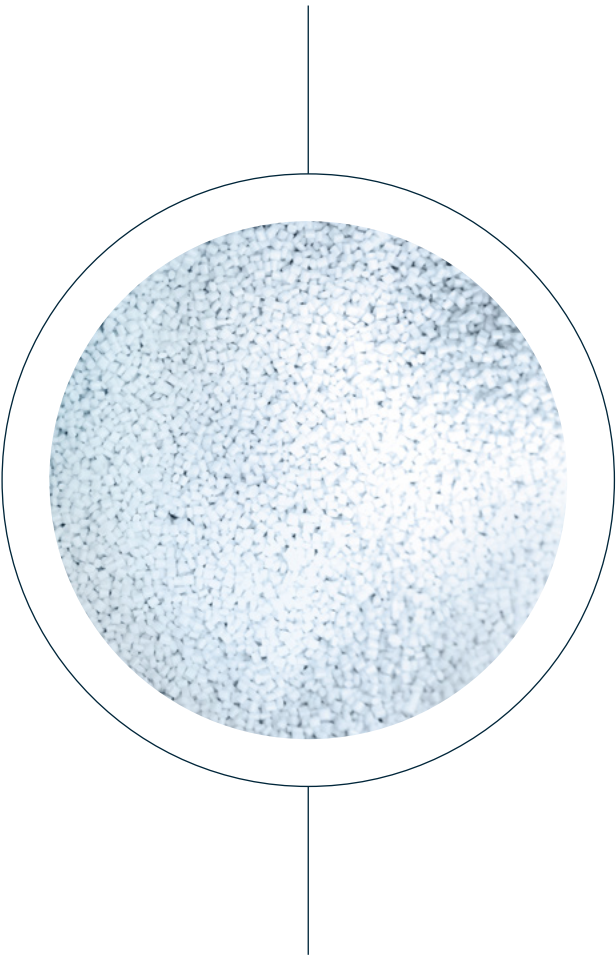
In 2021, the brand's total plastic consumption for packaging was approximately 1022 tons. Since October 2021, all brand's PET bottles (Waterlover Sun Milk SPF30 + SPF50, Biosource...) except one have been produced in 100% PCR¹ and all brand's 400ml PE bottles (Lait Corporel L'Original, Life Plankton Body...) except one have been produced in 100% PCR¹, in line with Biotherm's commitments to a circular economy. By making the choice to switch to PCR plastic, the brand avoided approximately 217 tons of virgin plastic in 2021 comparing to 2020. Together, this amounts to 25% PCR² plastic for the brand's entire plastic packaging footprint.

¹ Information audited, see details p.61.

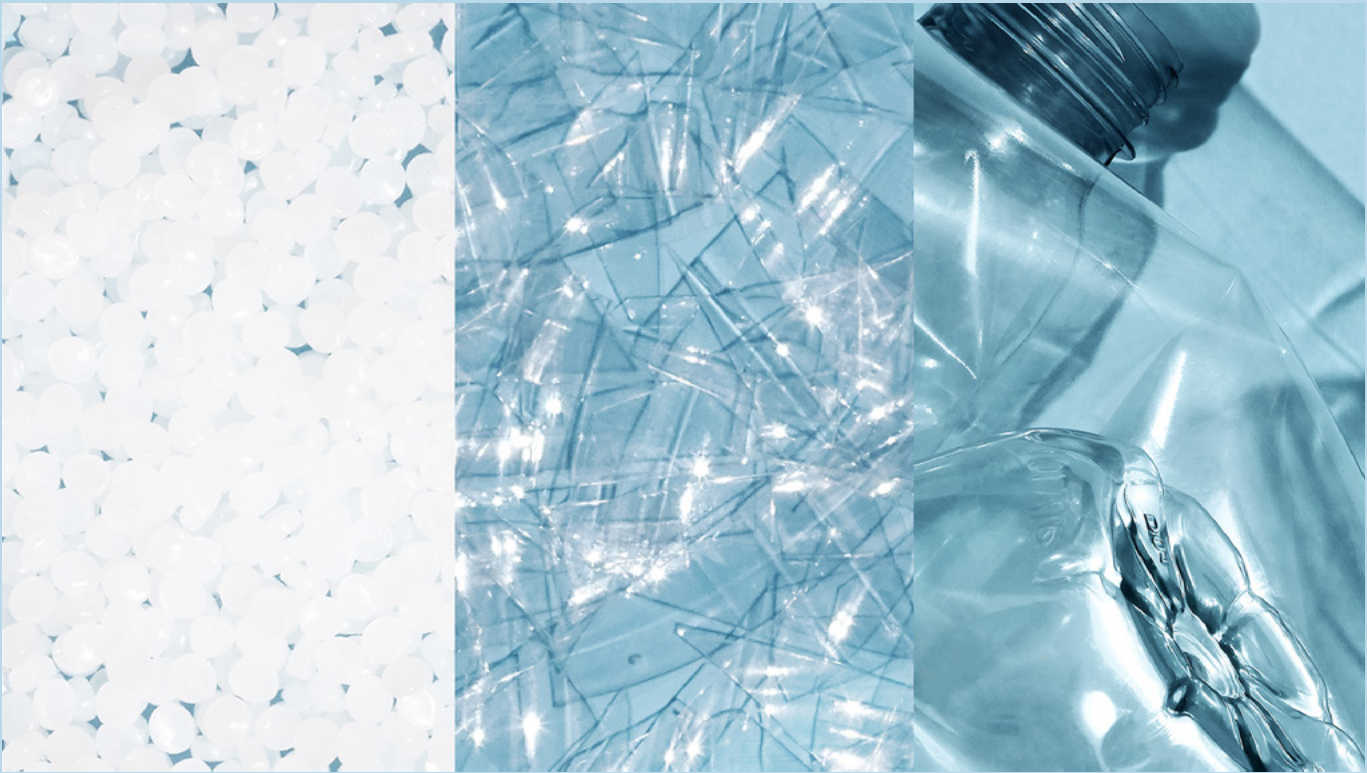
² Excluding cap, colorants & additives.

² According to Biotherm portfolio analysis on recycled plastic use in global plastic packaging in 2021. Excluding cap, colorants & additives.

What Is A "PCR" Material?



PCR stands for "Post-Consumer Recycled" and refers to a material that has been used by its end users, and then recycled after it cannot longer be used for its intended purpose. For example, PCR PET plastic would be a form of PET that has been used for an initial purpose (ex: a water bottle) and then recycled for its next life (ex: as a Waterlover Sun Milk bottle).



Today, Biotherm aims to make its packaging fully plastic circular by 2030. To achieve this goal, the brand will act at every stage of a product's lifecycle. This entails:

- Eliminating unnecessary plastic (ex: plastic limited to formula protection) and the reduction of plastic intensity by 20% versus a 2019 benchmark (in essence, reducing the weight of plastic packaging where possible).
- Innovating to ensure that brand's plastic packaging is reusable, recyclable, or compostable by 2025.
- Innovating to ensure that the plastic the brand uses is from recycled or biobased sources by 2025.
- Developing plastic waste collection actions with NGOs and other partners to collect at least as much plastic as the brand produces by 2030.

What Is A Circular Economy?



A circular economy is based on optimizing the use of materials and energy produced in the first place. It implies eliminate waste and pollution, circulate products and materials and regenerate nature. A transition from a linear process to a circular one, to renew energy and materials.

Biotherm's Roadmap

	TODAY	TOMORROW
<i>Packaging</i>	In 2021, more than 60% of the plastic used in Biotherm's bottles comes from recycled sources ¹ .	By 2023, 50% of the plastic used in our packaging across global brand will come from recycled sources.
		By 2025, we aim to be 100% fossil-free plastic across the brand.
		By 2025, 100% of our plastic packaging will be refillable, reusable, recyclable or compostable.
	In 2021, 31.7% of the glass used in our packaging comes from recycled sources.	By 2030, we will reduce by 20% in intensity the quantity of packaging used in our products, compared to 2019.

	TODAY	TOMORROW
<i>Production</i>	Biotherm's biotech plant in Tours, France has reduced its energy consumption by 57% between 2005 and 2021 (in kWh per ton of bulk) while seeing an increase in production. By the end of 2021, 100% of Biotherm's production sites were carbon neutral.	By 2030, 100% of Biotherm's production sites will be Waterloop.
<i>Retail</i>	In 2021, all Biotherm physical points of sale were designed using 59% of recycled materials and 50% recyclable materials.	By 2025, 100% of our new displays will be eco-designed, taking into account circular economy principles for end-of-life management, and 100% of our new Free-Standing Stores will be designed and built following our sustainability principles.
	100% recycled paper, FSC paper, & plastic-free gift boxes ² .	

¹ Based on 2021 quantities, excluding cap, colorants & additives.

² Excluding sampling sets.

Spotlight On The Biotherm Packaging Renovation: More Sustainable Packaging Inspired By The Sea

In 2021, Biotherm’s women’s skincare line underwent a total renovation to be more in-line with the brand’s Blue Beauty philosophy: expert skincare in packaging designed to be better for the environment by incorporating more recycled materials. Visually, this new eco-designed packaging is inspired by the power of the ocean and the natural process of erosion. Over the ages, ocean currents shape pieces of rock, glass & metal, making them irregular and utterly unique.

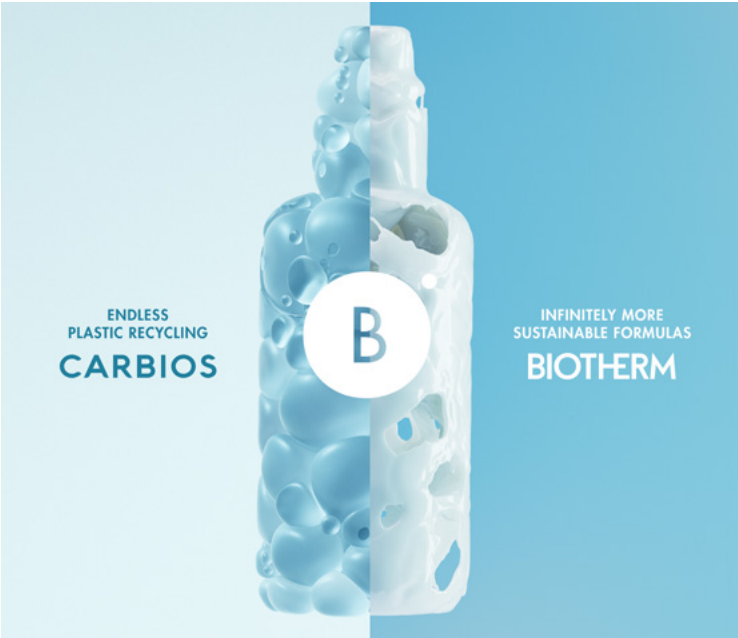
THIS NEW PACKAGING IS ECO-DESIGNED TO BE MORE RESPECTFUL OF OUR PLANET AND MORE TRANSPARENT FOR CONSUMERS

Renovated jars made of 40% recycled glass for 50ml formats with caps made of 100% recycled plastic¹.

Outer packs with QR codes moving towards augmented traceability. No cellophane on most 50ml formats to limit plastic waste.

Emblazoned with the Water Lovers heart as a reminder of Biotherm’s sustainability commitments.

¹ Excepts colorants & additives.



An Unprecedented Recycling Pilot

Biotherm and Carbios have realized a Waterlover Sun Milk bottle made from 100% biorecycled plastic produced using Carbios’ unique enzymatic biorecycling process.

Once a dream for plastic recycling — and now becoming progressively more realistic thanks to Carbios’ breakthrough and unique enzymatic biorecycling process. Today, most plastic can only be recycled about 2-3 times before its quality degrades to the point where it is no longer usable. Carbios’ transformational recycling technology uses hyper-charged enzymes from naturally occurring ones to break down PET plastic into its building blocks to like-new, virgin plastic quality to create an infinite, closed loop of recycling.

Biotherm’s Waterlover Sun Milk has been selected as the first beauty product in the world to have a bottle made from 100% biorecycled PET plastic for a non-commercial pilot sample in summer 2021. This first realization is a major milestone for the use of biorecycled plastic in the beauty industry as Carbios scales up production for full industrialization of its technology in 2025. Biotherm aims to use Carbios’ biorecycled plastic at scale when available.



Interview With Stanislas Rambaud, Biotherm Product Development Director

Why did Biotherm choose to renovate its packaging?

We need our products to be ambassadors of our values. Blue Beauty is a holistic beauty and rethinking our packaging to integrate more recycled materials is a huge lever for change. We are now using up to 40% recycled glass in our 50ml packaging and our renovated skincare jars have caps that are 100% recycled plastic. Moreover, it is also a symbolic shift for the brand as we integrated elements of the ocean into our design. We imagined the design of our new packaging: as piece of glass with irregularities, as if it was shaped by water, polished and sculpted by waves.

What are the technical challenges of using recycled plastic in cosmetic packaging?

Over the past decades, the entire beauty industry (both brands and consumer) has become accustomed to plastics made from virgin resin, obtained from petrochemicals. As we shift towards using more recycled plastic in our designs, we have a few challenges that arise:

First, there is a sorting challenge. Not all plastic recycling channels are at the same level of progress and availability to date (for example, PET recycling is more developed than PP recycling). Thus, even when brands want to use more recycled materials for packaging, the raw material is not always available in sufficient quantities.

Second, a technical challenge. PCR material can behave in different ways than virgin material (for example, in injection or the ability to decorate). We are constantly improving in this field but there remains a lot to be done.

Finally, an aesthetic challenge. Consumers are used to very transparent virgin plastic or plastic with vibrant colors. PCR plastic is often a bit grayer and can have variations in color because it is most often a result of having been mechanically recycled. In order to move to a fully circular economy, consumers have to accept these aspects and potential flaws.

Why is it important to develop packaging with circular economy principles in mind?

In order to address the growing environmental issues that the world is facing today, it is necessary to switch to a circular economy model operation for all of our materials — including plastics. With approximately 370 million metric tons of plastic produced worldwide every year¹, plastic has become an essential part of our everyday lives. However, an estimated 5 to 12 million metric tons of plastic enters the ocean every year². This is the equivalent of at least one garbage truck full of plastic waste entering our ocean every minute. Moving towards a circular economy means keeping materials in use and out of our oceans.

¹ PlasticsEurope, 2018. <https://www.plasticseurope.org/en/resources/publications/4312-plastics-facts-2020>

² United Nations Environment Programme.

Spotlight On Responsible Production

The vast majority of Biotherm's skincare products are produced in its plant in Caudry, France. This state-of-the-art facility is committed to rolling out best practices with regard to energy efficiency, efficient resource use, waste reduction and treatment, and to achieve operational efficiency combined with environmental performance.

Since 2005, it has reduced its CO₂ emissions (in tons of CO₂ eq) by 55%, its water withdrawal (in liters per finished product) by 67%, and its waste generation (in grams per finished product) by 52%. The plant is carbon neutral and is committed to becoming Waterloop¹ by 2030.

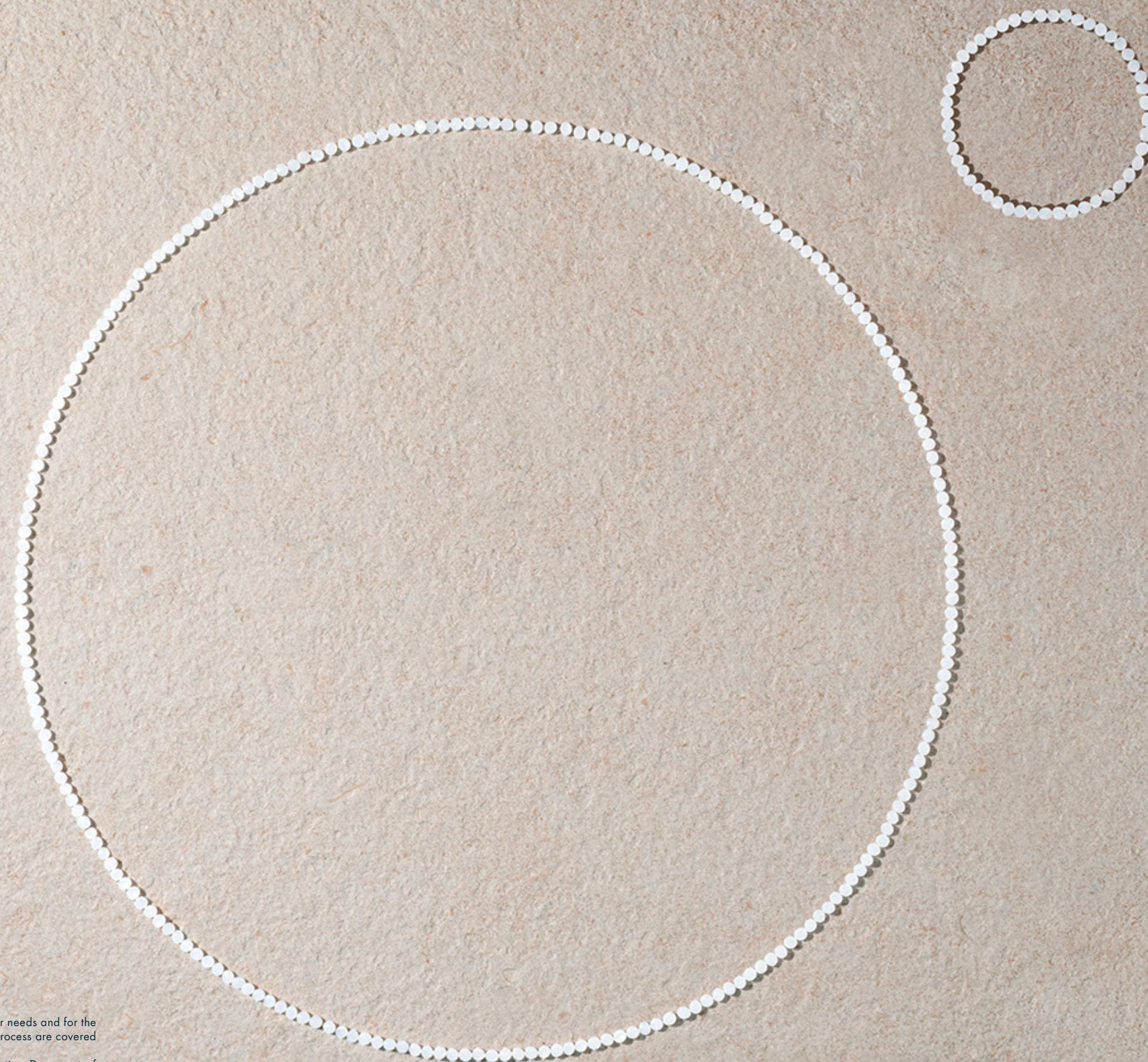
Spotlight On Biotherm's Biotechnology Facility

Biotherm's key ingredient Life Plankton is produced in a cutting-edge biotech plant in Tours, France, originally built in 1994 and progressively updated over the years.

It has used renewable energy since 2010 and renewable gas since 2018. The factory is committed to reduce its water withdrawal. Its energy consumption has been reduced by 57% between 2005 and 2021 (in kWh per ton of bulk) while seeing an increase in production. It complies with the highest standards: ISO 9001, ISO 14001, ISO 50001, and ISO 45 001.

¹ The L'Oréal "Waterloop Factory" concept consists of using fresh water only for employee's water needs and for the high-quality water production used in our cosmetic formula; all the water needs for industrial process are covered by water that is reused or recycled in a loop on the site.

NB: for Waterloop factory and carbon neutral site, please refer to the Universal Registration Document of L'Oréal Group accessible on https://www.loreal-finance.com/system/files/2022-03/LOREAL_2021_Universal_Registration_Document_en_0.pdf





More Action For Ocean Preservation

Since 2012 and the creation of Biotherm's Water Lovers sustainability program to preserve oceans, the brand has been committed to empowering consumers and local communities around the world to create a global community of Water Lovers. Since then, Biotherm has supported NGO Mission Blue to help advance ocean conservation through eight Hope Spots across the globe, a combined area of over 17 million square kilometers. Over the years, the brand has worked with a global network of NGO partners dedicated for the ocean: Mission Blue, Tara Ocean Foundation, Surfrider Foundation Europe, and the Oceanographic Institute of Monaco.

Today, Biotherm is empowering a global community of Water Lovers to support the UN's 30x30 Initiative — an ambitious international project to officially protect 30% of the ocean by 2030 to protect earth's biodiversity in the face of climate change. To meet this challenge, the brand works with organizations dedicated to protecting marine zones rich in biodiversity that are actively pushing for official 30x30 legislation, research the impact of climate change on our ocean and educate the public about the threats of ocean plastic pollution.

GOAL

Since 2012, Biotherm contributed to protecting over 17 million km² of marine areas with its NGO partner Mission Blue.

By 2030, we commit to do more to support the United Nation's 30x30 initiative to protect 30% of the ocean by 2030.

Taking Action For Our Oceans

Since 2019, most Biotherm employees worldwide and thousands of our community members have been involved in beach cleanups around the globe. These activations do more than take trash out of the environment — they bring people together around a common purpose and show the Blue Beauty spirit that drives Biotherm forward.



A Shared Desire To Protect: Biotherm And Mission Blue

In 2012, Biotherm began a long-term collaboration with Mission Blue, an organization founded by legendary oceanographer Dr. Sylvia Earle that works to identify and preserve "Hope Spots" or marine areas critical to the survival of the ocean. Mission Blue brings together over 200 respected ocean conservation groups and like-minded organizations, from the private sector to individual scientific teams doing critical research, who are united in their love for water and desire to protect the ocean.

Identifying and protecting Hope Spots is critical to allow the complex natural systems that exist underwater to function and rebuild themselves. Each Hope Spot is vetted scientifically by a group of ocean scientists led by the International Union for Conservation of Nature (IUCN). By promoting marine protection in Hope Spots, Mission Blue and its partners are creating a roadmap for ocean recovery.

Since the 2012 creation of its Water Lovers program, Biotherm has sponsored ten missions at eight Hope Spots with Mission Blue.

2012 — Penguin Conservation Project in **the Ross Sea**

2013 — Ocean Acidification project in **the Arctic**

2014 — Polar bear research in **the Arctic**

2014 — Protecting leatherback sea turtles in **the Pacific Seascape**

2015 — Coral Reef Restoration in **Fiji**

2015 — Replenishing fish and crustacean populations in **the Tetiaroa Lagoon**

2016 — Mathematical modeling of emperor penguin migration in **the Ross Sea**

2017 — Marine life preservation in the Mediterranean in **the Balearic Islands**

2018 — Protecting polar bear populations at **Spitsbergen Island**

2021 — Plastic pollution and ocean health in **Tenerife-La Gomera**



**SYLVIA EARLE,
FOUNDER AND CEO
OF MISSION BLUE**

"We are so grateful for Biotherm's partnership. By investing in Hope Spots, investing in the champions, investing in getting the word out and establishing baseline information on Hope Spots, together we are really making a difference being a voice for those who have no voice — the creatures of the sea, the children of the future — who will benefit from our actions. With Biotherm's support, we and our partners all over the world are creating momentum that is critically needed to draw attention to the fact that the ocean is in trouble. But we don't have to just sit back and watch the decline; we are able turn things around."

Partnering To Research Our Blue Lung: Biotherm And Tara Ocean Foundation

In 2017, Biotherm partnered with the Tara Ocean Foundation, a trailblazing research organization dedicated to the study of the impact of climate change on the oceans, and whose research helps the brand understand how to minimize its products' impact on water. Biotherm proudly supports the Tara Ocean Foundation's Mission Microbiomes, its 12th scientific mission focused on the study of the most fundamental fabric of the Ocean, its microbiome. Like the body's microbiome is fundamental for skin health, the ocean's microbiome is fundamental for the health of the earth. The research mission aims to understand the future of this vital ecosystem.



**ROMAIN TROUBLE,
 EXECUTIVE DIRECTOR OF TARA
 OCEAN FOUNDATION**

"The research onboard the Tara schooner, and in the 35 scientific laboratories across 12 countries with whom we collaborate, is unveiling a whole new biodiversity of our planet. Working hand in hand with the Biotherm teams not only provides the required means to reach these far ocean areas such as Antarctica, but moreover this close collaboration is fantastic for the global awareness of society around the interplay between our beautiful planet and us all."



An Urgent Need To Educate: Biotherm And Surfrider Foundation Europe

In 2020, Biotherm partnered with Surfrider Foundation Europe to raise public awareness on the negative environmental impacts of ocean plastic pollution and scale its beach cleaning operations.

Surfrider Foundation Europe is a non-profit organization whose purpose is to protect and showcase the importance of lakes, rivers, the ocean, waves, and coastlines. The organization is a leader in the fight for the protection of the ocean and its users, driven by the passion and commitment of its community on the ground.

In 2021, Biotherm's support helped Surfrider Foundation Europe's Ocean Initiatives program bring together nearly 20,000 participants across 540 beach cleanings, collecting over 465m³ of waste¹.

¹ Including nearly 27,000 plastic bottles, over 29,000 plastic cups, 18,500 cans and almost a million cigarette butts.

FLORENT MARCOUX



FLORENT MARCOUX, CEO OF SURFRIDER FOUNDATION EUROPE

"The Ocean is essential to life on Earth. It is a source of oxygen and food, it regulates the climate and hosts a multitude of ecosystems that are highly threatened by our human activities. Surfrider Foundation Europe works on a daily basis with key actors aiming to defend this common good for humanity, with the sole purpose of triggering real changes at the heart of our societies. It's through this approach that Surfrider Foundation Europe partners with Biotherm Water Lovers program, with the ambition to support and challenge the brand in the improvement of its environmental impact and to raise awareness."

Advocating For Our Ocean: Biotherm And The Oceanographic Institute, Prince Albert I Of Monaco Foundation

In 2021, Biotherm unveiled that it is the Major Executive Partner of the Oceanographic Institute of Monaco, based on their shared goal to inspire love and protection for the oceans. The brand's support will contribute to supporting the Oceano's actions for the oceans, mobilizing its global network of experts and decision-makers and raising public awareness on the fragile situation of the ocean today. Originally headquartered in Monaco, the launch of this long-term partnership is a homecoming for Biotherm.

ROBERT CALCAGNO



ROBERT CALCAGNO, CHIEF EXECUTIVE OFFICER OF THE OCEANOGRAPHIC INSTITUTE, PRINCE ALBERT I OF MONACO FOUNDATION

"More than ever, dialogue between international leaders, scientists, companies, artists, NGO's is crucial to face the unavoidable challenge of climate change. It is time to act and as such, we deeply acknowledge Biotherm for its holistic vision. Biotherm's support is crucial to help our stewardship programs, to take actions and nurture a positive dialogue with our visitors and our scientific and political networks."

PROGRESS

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THE BLUE REPORT

PROGRESS FOR THE OCEAN

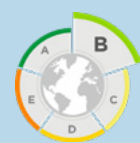
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Progress FOR THE OCEAN

HELP OUR CONSUMERS TO MAKE SUSTAINABLE CHOICES IN LINE WITH THEIR VALUES.

As part of Biotherm's Water Lovers program, the brand is committed to providing consumers with increased transparency on products through innovative environmental scoring that translates the brand's environmental impact information into concrete ratings for consumers. That's why we have developed a new labelling system that provides full and transparent information on the environmental and social impact of our products, in a clear and comparative way.



The environmental score gives an accurate vision of the impact of a product by taking into account 14 planetary impact factors, such as greenhouse gas emissions, water scarcity, ocean acidification or the impact on biodiversity. The impacts are measured at every stage of a product's life cycle and calculated by looking not only at sourcing, production, and transportation, but also consumer usage and packaging recyclability.

Scores are on a scale from A to E, with an "A" product considered as "best in class" in terms of its environmental impacts in its category. Each product is ranked in comparison to other products in the same category so that they can easily be compared.

Launched in 2021 in France and Germany, this new labelling system will be progressively deployed in other countries.

VERIFIED BY EXPERTS



This environmental and social labelling methodology was developed with the help of 11 independent scientific experts and is aligned with the European "Environmental Product Footprint" standards that aim to reduce the environmental impact of goods and services with a multi-criteria approach. The data is also verified by Bureau Veritas Certification, an independent auditor worldwide recognized.




OUR PRODUCT ECO-DESIGN TOOL TO MEASURES THE ENVIRONMENTAL AND SOCIAL IMPACT OF THE GROUP'S PRODUCTS.

Biotherm is committed to reducing the impact of its products on water by setting tangible goals year-by-year. In order to do this, the brand has adopted a product lifecycle methodology developed by the L'Oréal Group. This enables the environmental impact of Biotherm's formulas and packaging to be evaluated with internationally validated methodologies developed by a panel of 11 international experts. By using this tool, Biotherm is able to track the environmental impact of its products and project the potential environmental impact of decisions made for packaging or formulas.


GOAL

100%
eco-designed¹ products

In 2021, 85%  of Biotherm's new or renovated products had improved formula and/or packaging² according to a global product life cycle analysis.

By 2030, 100% of our new products will be eco-designed.

¹ Improved products that include new or renovated formula and/or packaging that improve their environmental or social impact according to the SPOT (Sustainable Product Optimization Tool) methodology. This tool assesses product environmental and social impact and quantifies impact reduction across every aspect of the product.

 Information audited, see details p.61.

² According to Biotherm skincare portfolio analysis on new launches and renovations in 2021.

This Report Has Been Audited Externally By Deloitte

The data mentioned in this report with this symbol ☑ have been audited by Deloitte.

Biotherm's Sustainability Progress Report 2021 has been audited by a third party, the external auditor DELOITTE.

Deloitte have made the necessary reconciliations between the Information published by the Biotherm brand and the consolidated social, societal and environmental information published in the L'Oréal Group's management report. Deloitte verified the existence of a data collection, consolidation, processing and control process aimed at ensuring the fairness of the Information and implemented analytical procedures that consisted in verifying the correct consolidation of collected data. Deloitte carried interviews with relevant directions at the Company's Headquarters and with a selection of contributing entities to at ensure the fairness of the qualitative and qualitative Information published.

The Greenhouse gas balance (GHG Balance) is conducted in accordance with the Greenhouse Gas Protocol (GHG Protocol) rules, the international reference method for recording GHG emissions. It makes it possible to determine Biotherm's total carbon footprint in three Scopes.

In this Document, Biotherm's performance in terms of CO₂ emissions is expressed in CO₂ equivalent, i.e. CO₂ eq. As per the Greenhouse Gas Protocol (GHG Protocol):

- **SCOPE 1:** "direct emissions from sources owned or controlled by the reporting entity";
- **SCOPE 2:** "indirect emissions related to the consumption of electricity, heat or steam necessary for product processing or operating the reporting entity";
- **SCOPE 3:** "other indirect emissions related to product supply chain (upstream emissions) and the use of products and services during their life cycle (downstream emissions)".



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