

BIOThERM




THE BLUE REPORT

The Water Lovers
Sustainability Progress Report

BIOThERM
WATER LOVERS

BIOThERM

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





Grégory Benoit
Biotherm's Global Brand President

"Biotherm is committed to become the source of a better life for the skin and the ocean."

The ocean has always been at the heart of Biotherm: we come from water and we want to give back to it. Our commitments to protect marine biodiversity are perfectly in sync with our brand's purpose: to be a source of better life for your skin and beyond. As the biggest source of life on earth, the ocean needs care and protection.

In June 2023, the treaty of the High Seas was adopted by consensus.¹ This treaty is a turning point in the protection of biodiversity and the fight against climate change, and it gives us more hope to further protect the ocean. Indeed, despite the critical role that the ocean plays on our planet's health, it remains critically under-protected and understudied.

Indeed, despite the critical role that the ocean plays on our planet's health, from regulating climate change to producing more than 50% of the oxygen on earth², it remains critically under-protected and understudied. Less than 20% of the oceans have been explored: we know the surface of the moon better than the bottom of the oceans. Yet, the potential of oceanic resources is huge. In a single liter of sea water, there are between 10 and 100 billion living microorganisms³, the source of new molecules, genes, and precious substances for mankind in various fields such as health, medicines, or cosmetics. There is no denying that the ocean is at the heart of our health and the foundation of our survival on earth.

For more than 10 years now, we are committed to continuously improving our products and take action throughout their life cycle, from formulas designed to be more respectful of aquatic life, to more sustainable design solutions across packaging and retail, and increasing transparency for our consumers with our environmental score. Through our partnerships with expert NGOs, we support and engage in concrete positive actions that preserve the ocean.

I invite you to discover our second Blue Report, its aim is to communicate transparently on our successes and challenges as we continue our journey toward 2030.

1. Protecting the ocean, time for action (europa.eu)

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

3. Un traité international pour la préservation de la haute mer (nausicaa.fr) ; Biodiversité en haute mer (nausicaa.fr)

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BIOThERM WATER LOVERS PROGRAM



Biotherm's SUSTAINABILITY PHILOSOPHY

Since 2012, Biotherm has been committed to reducing the brand's environmental footprint on water and aquatic ecosystems with our Water Lovers roadmap. This program takes a holistic view of beauty, focusing on the entire life cycle of a product, and adds a new layer of consciousness to the role of a circular economy in the beauty industry. More than ever in 2022, Biotherm has reinforced its commitments, explored new opportunities, and mobilized a global community of Water Lovers to contribute to protecting the ocean and its biodiversity. As a brand born from water, that is our way to be part of the journey.

BIOTHERM'S WATER LOVERS SUSTAINABILITY PROGRAM IS BUILT IN THREE PILLARS

MORE BIOSCIENCE FORMULAS

Biotherm uses its expertise in bioscience¹ to develop formulas with a reduced effect on aquatic life, taking into consideration every stage of the process, from ingredient sourcing to product's end of life. In addition, in 2022, an environmental assessment² of 100% of Biotherm's formulas has been performed to improve their effect on water life.



MORE SUSTAINABLE DESIGN SOLUTIONS

To reduce the impact on the environment, Biotherm is committed to implementing more sustainable practices and using materials with a better environmental footprint throughout the entire lifecycle of its products, including production, packaging, and retail. Plastic pollution in the ocean is an issue we keep in mind. The brand is continuously innovating by incorporating circular economy³ principles into its packaging. This includes using more recycled materials and offering disruptive consumer experiences such as refillable and rechargeable products.



MORE ACTIONS FOR OCEAN PRESERVATION

Biotherm is empowering a global community of Water Lovers to contribute to ocean preservation through the concrete actions undertaken with our partners since 2012 to support the UN's 30x30 Initiative⁴— an ambitious international project to officially protect 30% of the ocean by 2030 to protect earth's biodiversity in the face of climate change. This year, Biotherm supported a boat as part of a research and study project on marine biodiversity with the Tara Océan Foundation.



1. See page 59

2. Lab tests and/or informatical assesment of the formula's ingredients performed by an ecotoxicologist

3. See page 59

4. UN's 30X30 initiative: <https://www.nature.org/en-us/magazine/magazine-articles/30x30-wyss-foundation-interview/>

WATER LOVERS ROADMAP



OUR COMMITMENTS & ACHIEVEMENTS

More Bioscience Formulas

2021

100%

of Biotherm's new sun care formulas are tested in marine life condition.

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

2022

In 2022, an environmental assessment¹ of 100%[☺] of Biotherm's formulas has been performed to improve their effect on water life.

In 2022, 71%[☺] of Biotherm's ingredients in its formulas were biobased or derived from abundant minerals.

2030

100%

of formulas will be more² respectful of aquatic life.

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

More Sustainable Design Solutions

2021

+ 60%[☺]

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

100% of Biotherm's production sites were using renewable energies.

Biotherm's plant in Tours, France, uses renewable energies.

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

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

2022

+ 80%[☺]

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

2025

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 circular³.

100% fossil-free plastic packaging ambition across the brand, by replacing virgin fossil-based plastic with alternatives, including recycled or biobased materials⁴.

More Actions 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 Océan Foundation, a research organization dedicated to the study of the impact of climate change on the oceans.

2021

17 million Km² of marine areas have been protected across the world since 2012 with NGO partner Mission Blue.

Biotherm became a Major Executive Partner of the Oceanographic Institute of Monaco to support the actions to protect the ocean.

2022

Biotherm started partnering with skipper Paul Meilhat for the Route du Rhum Tara Océan Fondation⁵ on a marine biodiversity research project, Racing with Purpose.

2030

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

30 million Km² of marine areas protected across the world with NGO partner Mission Blue by 2030.

[☺] Information audited, see details p.63

¹. Lab tests and/or informatical assesment of the formula's ingredients performed by an ecotoxicologist

². Compared to the portfolio of 2022

³. See page 59

⁴. Biotherm chose to align this ambition to our global target date of 2030, giving time to get the right technical solutions that are still unavailable today.

⁵. Explorer et sensibiliser pour protéger l'Océan | Fondation Tara Océan (fondationtaraoccean.org)



Dania Blin
Biotherm Sustainability Director

What is the evolution of the overall impact of Biotherm?

Last year, we set bold ambitions for Biotherm for 2030, which means going beyond ameliorating our footprint and striving for an overall positive impact on the ocean. If we look at the global impact of our products, 100% of our new or renovated products have improved their formulas and/or packaging according to a worldwide product life cycle analysis in 2022, compared to 85% in 2021.

We have also strengthened our Water Lovers pillars toward more respect of biodiversity: more Bioscience formulas, where an environmental assessment of all Biotherm formulas (2021 catalog) has been performed; more sustainable design solutions, with more recycled material; we also reduced the energy consumption in Biotherm production sites. Beyond products, to take concrete actions for ocean preservation, we need to understand it. That is why Biotherm partnered with skipper Paul Meilhat to race with purpose: The Biotherm IMOCA, a world class racing boat with a champion & committed skipper, from the Route du Rhum to the Ocean Race and the Vendée globe, but also a concrete contribution to research about Ocean biodiversity, in partnership with the Tara Océan Fondation.

Beyond limiting the impact, why is it important to take care of the ocean?

The ocean is crucial to our life on earth. Among the most eloquent figures, the ocean emits 50% of the oxygen we breath and has absorbed 30% of the CO2 emitted by human activities. The ocean is also a great ally against climate change, absorbing 90% of excess heat.

We need a healthy ocean, but the more time passes, the less healthy it becomes. The ocean is projected to warm by 3 to 5 degrees by 2100, acidifying ecosystems and disrupting the marine food chain. Today, 50% of the seagrass beds and corals have disappeared. Also, 14 million¹ tons of plastic are dumped each year in the ocean, and this pollution will double by 2050 if nothing is done².

How do you work concretely on protecting aquatic biodiversity?

At Biotherm, we know the severe threats to marine ecosystems and are committed to limiting their effects. All our efforts are geared towards this goal. Thanks to our rigorous environmental assessment process, many of our formulas have been evaluated for reduced effect on water life, and more will become so, thanks to our improvement roadmap.

We have also taken new steps towards plastic circularity, increasing our use of post-consumer recycled plastic (PCR) and reducing our overall plastic footprint, from products to sampling.

Finally, since 2012 Biotherm has been partnering with NGOs through its Water Lovers program, aiming to protect the oceans through concrete and impactful actions. In 2022, Biotherm and Tara embarked on a marine biodiversity research project with skipper Paul Meilhat.

1. Marine plastic pollution - resource | IUCN

2. Océans : dix chiffres pour résumer les enjeux et les risques (lemonde.fr)



BIOTherm
WATERLOVER
HYDRATING SUN MILK

30
SPF
WATER PROTECTION
HIGH PROTECTION
WIND AND ALL DAY
WATER RESISTANT

100%
RECYCLED PLASTIC BOTTLE



e 400ml 13.52 FL. OZ.

BIOTherm
WATERLOVER
MILKY SUN SPRAY

50+
SPF
WATER PROTECTION
HIGH PROTECTION
WIND AND ALL DAY
WATER RESISTANT

100%
RECYCLED PLASTIC BOTTLE



e 200ml 6.76 FL. OZ.

BIOTherm
WATERLOVER
SUN MILK

50
SPF
WATER PROTECTION
HIGH PROTECTION
WIND AND ALL DAY
WATER RESISTANT

100%
RECYCLED PLASTIC BOTTLE



e 100ml 3.38 FL. OZ.

BIOTherm
WATERLOVER
SUN MIST

30
SPF
WATER PROTECTION
HIGH PROTECTION
WIND AND ALL DAY
WATER RESISTANT

100%
RECYCLED PLASTIC BOTTLE



e 100ml 3.38 FL. OZ.

BIOTherm
WATERLOVER
FACE SUNSCREEN

50+
SPF
WATER PROTECTION
HIGH PROTECTION
WIND AND ALL DAY
WATER RESISTANT

100%
RECYCLED PLASTIC BOTTLE



e 50ml 1.70 FL. OZ.



Our Environmental Score to help consumers make sustainable choices

As part of Biotherm's Water Lovers program, the brand is committed to providing consumers with increased transparency on products through innovative environmental scoring system.

This classification reflects the impact of a Biotherm product compared to other products offering the same kind of cosmetic service on a scale from A ("best in class" products) to E. The environmental Score is determined by considering 14 planetary impact factors measured at every stage of a product's life cycle, by looking not only at sourcing, production, and transportation, but also consumer usage and packaging recyclability. Regarding cosmetics, the key impact factors are carbon and water. As a result, Biotherm shares the environmental score for its products along with specific information about their carbon and water footprints.

VERIFIED BY INDEPENDENT AUDITORS

The methodology was co-developed with 11 independent scientific and experts and is aligned with the highest worldwide standards to help reducing 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 products embody our efforts

Force Supreme Blue Serum



Life Plankton™ Elixir



Lait Corporel



WaterLover Sunmilk



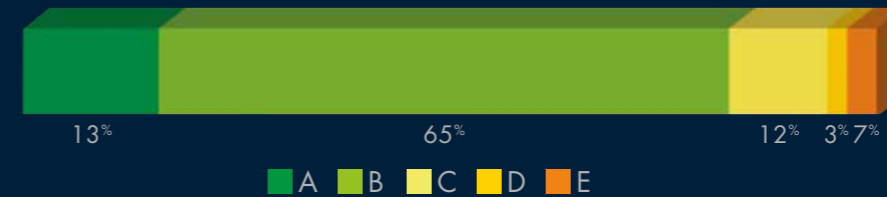
Progress

	GEOGRAPHICAL ACTIVATION	PRODUCT ACTIVATION
2021	France, Germany	Skincare
2022	+ Spain, Canada	+ Bodycare
2023	+ China, Italy	+ New skincare categories

2025 GOAL

Cross Industry EcoBeauty Score¹

2022 product distribution



In 2022, 67% of our products have their environmental impact scores published, 13% of which were scored A and 65% were scored B. We are committed to ameliorating all D & E scores by 2030.

1. See p58

More Bioscience FORMULAS

Biotherm relies on bioscience, which is the science of living microorganisms, as the foundation of its brand. The company embraces co-creation with nature, which involves working with biologists and biology to develop innovative solutions that are both disruptive and environmentally friendly. Bioscience is the leading research field for beauty innovation, and its active ingredients deliver exceptional performance in terms of skin benefits, safety, and sustainability. Through sustainable biotechnology, Biotherm is able to recreate nature, extract the best from it, and enhance it without compromising on effectiveness or safety. This approach allows the company to optimize natural ingredients without the complexities of the natural world or any adverse impacts. These powerful ingredients are then incorporated into formulas that are more natural¹ and biodegradable.

As a reminder, all of our new formulas are created with our Water Lover Formulation Charter. Created in 2019, it aims 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.

GOAL

100%
of our formulas more respectful
of aquatic life

In 2022, an environmental assessment² of 100% of Biotherm's formulas has been performed to improve their effect on water life.

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

1. Compared to previous versions

2. Lab tests and/or informational assessment of the formula's ingredients performed by an ecotoxicologist.

BIOTHERM'S ROADMAP

Ecotoxicity

2019

Since 2019, 100% of Biotherm's new sun care formulas are evaluated for reduced effect on water life.

2022

In the end of 2022, an environmental assessment¹ of 100% of Biotherm's formulas has been performed to improve their effect on water life.

2030

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

Ingredients

2021

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

100%[☺] of new skincare formulas contain Life Plankton™, an active ingredient that is 100% of natural origin, 100% renewable, and 100% biodegradable.

Key active ingredients produced with bioscience processes when possible.

2022

In 2022, 71%[☺] of Biotherm's ingredients in its formulas remained biobased or derived from abundant minerals.

2030

By 2030, 95% of Biotherm's ingredients in formulas will be biobased, derived from abundant minerals or from circular processes.

By 2030, 100% of the biobased ingredients for formulas and packaging materials will be traceable and will come from sustainable sources.

Biodegradability

2021

In 2021, the mean biodegradability of Biotherm's skincare ingredients was 79%.[☺]

2022

In 2022, the mean biodegradability of Biotherm's skincare ingredients remained 79%.[☺]

2030

By 2030, the mean biodegradability of Biotherm's ingredients will be 90%.

Progress

2019

Since 2019, all new skincare formulas are created with our Water Lovers Formulation Charter to have reduced effect on aquatic life.

2020

In 2020, Biotherm received its first Nordic Swan Eco-Label for its Waterlover Sun Milk.

2021

Since 2011, zero microbeads in all new rinse off product development.

[☺] Information audited, see details p.63.

1. Lab tests and/or informatinal assesment of the formula's ingredients performed by an ecotoxicologist

Biotechnology & ingredients

A WORD FROM OUR SCIENTIFIC EXPERTS ABOUT BIOTECHNOLOGY

The microorganism bacteria, was the first form of life on Earth. Microorganisms are everywhere: hidden in the ground, drifting in the water of oceans and rivers, and floating in the air.

They have continued to evolve and shape our planet, mainly by modifying the atmosphere or the climate. Beyond their proven efficacy in cosmetics, microorganisms are also particularly interesting regarding sustainability.

They can 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.

Today, thanks to biotechnology, we harvest the precious molecules or bacteria produced by microorganisms.

As early as the 1980s, Biotherm pioneered biotechnology to produce its flagship ingredient, Life Plankton™. Fully renewable, it allows to obtain 10 billion microorganisms in just one drop from our factory.

The science of living microorganisms and biotechnologies make it possible to link advanced efficiency and renewability. This science is more relevant than ever in our challenging world, where efficacy and sustainability go hand in hand.

The power of bioscience, source of a better: Blue Retinol Night Serum

Our new Blue Retinol Serum formula combines biosourced ingredients amplified with Life Plankton™ to target an efficacious formula that has been evaluated for reduced effect on aquatic life. Life Plankton™'s bio-affinity allows a x2 retinol boosted efficacy.

Launched in September 2022, this new formula is true to our Water Lovers commitments:

— Formula

88% from natural origin

92% biodegradable

— Packaging

25% recycled glass

ENVIRONMENTAL SCORE B



Life Plankton™: the backbone of our scientific expertise



VITREOSCILLA FERMENT
100% renewable &
natural origin

Listed as: *vitreoscilla ferment*

LIFE PLANKTON™

Life Plankton™ was named for Plankton's powerful capacity to boost skin regeneration, creating new life within the skin. It contains 35 nutrients also found in skin, which impart excellent biological affinity, or bioaffinity for short, with human skin. As a result of this bio-affinity, Life Plankton™ boosts skin's natural regeneration functions. Biotherm's researchers held a theory – that Life Plankton™'s high-level bio-affinity could amplify the skin properties of other ingredients. They decided to test the association of Life Plankton™ with benchmark dermatological ingredients – whose properties are recognized and documented by the dermatological community, such as retinol, vitamin C or bioceramides¹.

Life Plankton™ boosts the skin's natural regeneration functions. Originally sourced from the French Pyrenees, Life Plankton™ is a signature ingredient of Biotherm, recreated through a renewable biotechnology method in Biotherm's facility in Tours, France since 1994. It is used in most of Biotherm's skincare products, listed under the name *vitreoscilla ferment*.

Life Plankton™ amplifies action of retinol x2. Findings show that Life Plankton™ amplifies retinol, the n°1 ingredient used to address aging skin. Tests done on 7 proteins involved in skin quality show that retinol's efficacy is multiplied by 2 when associated to Life Plankton™². Blue Retinol, the association of Life Plankton™ with retinol, doubles retinol's efficacy on epidermis, participating in smoother skin³.



¹&². See page 60&61

³. In-vitro test, vs. retinol, on 7 different biological markers involved in skin epidermis constitution and function. A similar amplifying action is found when Life Plankton™ is used in combination with pro-retinol.



Cyril Sweetlove
Scientific expert and ecotoxicologist at L'Oréal

What is the environmental assessment Biotherm is using?

This unique methodology is a multi-step scientific approach to evaluate formulas. This test platform has been developed in our Environmental Research Laboratory, created in 1995, to evaluate the impact of our products on the aquatic environment. We evaluate our ingredients on three planktonic species representative of freshwater environments. As these species are at the base of the food chain, they are particularly sensitive to environmental disturbances and are good indicators of the general state of an ecosystem. And as the marine environment is also important for us, we extended the scope of our investigation on a specific platform in the marine environment. Basically, all the aquatic biodiversity is represented. This is exactly how we tested all the sun care formulas of Biotherm since 2019 and since 2021 the rest of the catalog to evaluate the potential effects of our formulas on aquatic life.

Concretely, how does it work?

The tests are carried out on planktonic species representative of marine environments such as bacteria, algae and corals. Our global assessments allow us to determine the persistence, bioaccumulation and ecotoxicity of the compounds in aquatic environments. Thus, we can select ingredients that are biodegradable or have the least impact on ecosystems, such as the Waterlover Sunmilk.

How does Biotherm plan to extend the environmental safety to all formulas?

It is a huge work that I am not doing alone. There is a full dedicated team with scientists, technicians, ecotoxicologists that started to work on the project over a year ago. Today, we are proud to say we screened all of the Biotherm formulas catalog 2021. This analysis allows us to identify specific ingredients to ensure their innocuousness on aquatic ecosystems. Also, we are not doing this alone, collaborating with experts such as the scientific Center of Monaco. The Criobe and the Tara Foundation also helped us with the results of their research. Science progresses and our knowledge and methods too. This continuous process allows us to constantly improve the impact of our formulas.

What are the following steps after evaluation to achieve 2030 goal?

We are building a test roadmap for many formulas needing further analysis. Tests are planned for 2023 and will extend to 2024, followed by formula amelioration when necessary. Also, to maximize formulas that are respectful by design, we integrated this testing methodology into our formulation charter. This long-term work that is essential for achieving environmental safety on 100% of Biotherm formulas.

Taking our water lovers commitments to the next step

All this scientific work is aimed at a transformation of our formulas to respect aquatic biodiversity better. Since the sustainability of our products and the environmental impact of our formulas are our priorities, we are constantly improving our formulas to make them flagships of our philosophy: more respectful of the skin and the ocean.

Our way to offer new products that are ever more respectful of aquatic life

Since 2019, all of Biotherm's new sun care formulas have been evaluated to ensure that these formulas have reduced effect on aquatic life. In 2022, to go beyond sun care, our scientific team used an effective methodology to assess our other formulas' effect on aquatic life. Of the 152 Biotherm formulas assessed, 61 have been validated as having reduced effect on aquatic life.

This assessment of the formulas is the first step before performing a series of tests, when necessary, planned over the next few years, followed by formula adjustments when required. Also, all our new & renovated formulas undergo this assessment during conception. Thus, we remain faithful to our ambition for 2030 to have 100% of our formulas more respectful of aquatic life.

GOAL 2030

95%
of ingredients of organic origin

90%
average biodegradability of Biotherm's formulas

Our latest cleanser walks the talk: Cera Repair Cleanser

LIFE PLANKTON™ + BIOCERAMIDES¹
+ NIACINAMIDES²

99% biodegradable formula

24% PCR tube

ENVIRONMENTAL SCORE B



More Sustainable DESIGN SOLUTIONS

Beyond formulas, our Water Lovers roadmap includes using more sustainable materials in all aspects of the business, from packaging to retail. We have pledged to reduce our virgin plastic consumption and support a circular economy¹. We aim to design our packaging for plastic circularity², making it both recyclable and recycled in practice, with clear communication to consumers. Biotherm hopes to shift from the traditional 'take-make-dispose' consumption model to a more sustainable 'reduce-reuse-regenerate' approach by engaging all stakeholders throughout the value chain and being transparent with consumers.

GOAL

In 2022, more than 80% of the plastic used in Biotherm's bottles comes from recycled sources.

By 2030, our packaging will be 100% plastic circular³.



BIOThERM'S ROADMAP

Packaging

2021

In 2021, more than 60% of the plastic used in Biotherm's bottles comes from recycled sources.

In 2021, 31.7% of the glass used in our packaging comes from recycled sources.

2022

In 2022, more than 80%^① of the plastic used in Biotherm's bottles comes from recycled sources.

2025

50% of the plastic used in our packaging across global brands will come from recycled sources.

By 2025, 100% of our plastic packaging will be refillable, reusable, recyclable or compostable.

2030

By 2030, our packaging will be 100% plastic circular.

By 2030, we will reduce by 20% intensity the quantity of packaging used in our products, compared to 2019.

We aim to be 100% fossil-free plastic across the brand¹.

Production

2019

Since 2019, Biotherm's biotech plant in Tours, France has reduced its energy consumption by 33% (in kWh per ton of bulk).
Biotherm's production sites reduced their water consumption by 75% since 2019.

2021

Biotherm's plant in Caudry, France, used 35% of recycled water, or 21 212m³ of water, or the equivalent of 8,5 olympic swimming pools of two meters deep and 2500m³.

By the end of 2021, 100% of Biotherm's production sites were using renewable energy.

2022

Biotherm's biotech plant in Tours, France has reduced its energy consumption by 35%^① since 2019 (in kWh per ton of bulk).

Biotherm's production sites reduced their water consumption by 69% since 2019.

Biotherm's plant in Caudry, France, used 37% of recycled water, or 23 619m³ of water, or the equivalent of 9,4 Olympic swimming pools two meters deep and 2500m³.

2030

By 2030, 100% of Biotherm's production sites will be Waterloop.

Retail

2021

In 2021, all BT physical points of sale were designed using 59% of recycled materials and 50% recyclable materials.

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

2022

In 2022, all BT physical points of sale were designed using 59%^① of recycled materials and 50%^① recyclable materials.

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

2025

By 2025, 100% of our new displays will be eco-designed, considering 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.

^① Information audited, see details p.63.

1. Biotherm chose to align this ambition to our global target date of 2030, giving time to get the right technical solutions that are still unavailable today.

Our efforts towards plastic circularity

In 2022, Biotherm has reduced its overall consumption of virgin plastic by 5% and increased its overall use of PCR1 plastic by 35,5%.

Since 2021 all-new jars brand's PET2 bottles (Waterlover Sun Milk SPF30 + SPF50, Biosource...) have been produced in 100% PCR, and all brand's 400ml PE bottles (Lait Corporel L'Original, Life Plankton™ Body...) have been produced in 100% PCR, in line with Biotherm's commitments to a circular economy.

Our adventure towards plastic circularity doesn't end there, and we're continuing to tackle the issue of virgin plastic use to increase our share of recycled plastic. In 2021, Biotherm used 39.5% of recycled PE3 plastic on all packaging. In 2022, we used more than 59%. In 2021, Biotherm used 69,6% of recycled PET plastic on all packaging. In 2022, we used approximately 82%.

	2021	2022
PE	Biotherm used 78,9% of recycled PE plastic for bottles.	Biotherm use 97,7%.
PET	Biotherm used 85,5% of recycled PET plastic for bottles.	Biotherm use 99,8%.

This amounts to 35,8% PCR plastic for the brand's entire plastic packaging footprint in 2022, compared with 25,1% PCR in 2021.



Sampling for good

As our Water Lovers philosophy requires a holistic approach, making our commitments go beyond our products, we are tackling the issue of sampling. Sampling is essential for consumers to discover our products, but can be a challenge in terms of sustainability.

Beyond what we already do to reduce our overall impact at Biotherm, we have a twofold approach: reducing the general quantities of samples and finding new and more sustainable sampling solutions.

2021

Our first paper-based sachet

Cera Repair Cream Kraft Sachet

- Renovated packaging made of 60% cardboard for 1,5ml formats
- -66% of plastic for each sample distributed to the consumer
- Emblazoned with the Water Lovers heart as a reminder of Biotherm's sustainability commitments

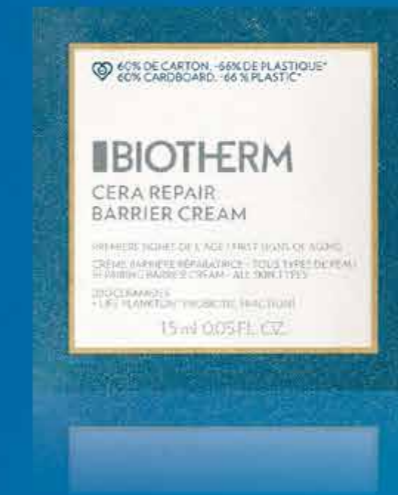
2022

Total samplings

-37,57% of distributed samplings since 2021

PCR tubes

We have harmonized our 5ml sampling tubes with the integration of 70% PCR plastic. For example, our 5ml Blue Therapy Amber Algae Cream sample features a skirt of 70% PCR plastic and a head of 75% PCR plastic.





Sonia Taalat
Product Development Manager at Biotherm

Why does Biotherm work on more sustainable sampling?

Sampling is an essential point of contact that enables us to initiate a privileged relationship with our consumers. It's important for our consumers to experience our formulas for themselves, so that they can be convinced. Every year, Biotherm distributes several million samples. As a result, they represent a significant proportion of our plastic consumption that we need to address, and a challenge that we must rise to.

How does Biotherm work on more sustainable samplings?

At Biotherm, we're working on several fronts to reduce our plastic consumption. We began by reworking our offer to better target our customers' needs, so that we could start to reduce. As a result, we have reduced our production quantities by 37,5% between 2021 and 2022. We are also trying to replace plastic with other materials by gradually increasing the proportion of our bags made from paper and cardboard. By working on the design of our sachets, we are addressing a large part of our plastic consumption: around 10% of Biotherm's PET consumption. When we can't technically replace plastic, we try to incorporate recycled plastic. Some formats, such as our 5 ml tubes, already incorporate around 70% PCR, and we are working to extend this initiative to other travel size formats.

What is the major technical complexity of doing sustainable samplings?

At Biotherm, we have high-performance skincare formulas with numerous active ingredients, and the packaging materials we use must guarantee their preservation and stability over time: they must be compatible. Compatibility with materials such as paper or recycled plastic is an added complexity and represents the biggest challenge to do sustainable samplings. In order to overcome this challenge, we work to test the best possible configurations for our types of formula.

More Actions for OCEAN PRESERVATION

Our vision

Biotherm has been dedicated to ocean & biodiversity preservation since the creation of its Water Lovers sustainability program in 2012.

The brand has been working with various non-governmental organizations (NGOs) such as Mission Blue, Tara océan Foundation, and the Oceanographic Institute of Monaco to support ocean conservation and preserve marine life.

Beyond our concrete actions with our partners, we have embarked on an adventure with French skipper Paul Meilhat, sailing on the new Biotherm IMOCA vessel; embodying our commitments starting at the Route du Rhum in September 2022.

GOAL

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

In 2022, the Racing with Purpose project kicked off on the Biotherm IMOCA vessel, in collaboration with the Tara Océan Fondation.

By 2030, we're committing to support the United Nation's 30x30 initiative to protect 30% of the ocean.





Biotherm: Racing With Purpose

Biotherm and Paul Meilhat are joining forces with the Tara Océan Foundation to study ocean biodiversity as the racing team took on The Ocean Race in 2023 through an experimental research project integrated into the Biotherm IMOCA. Each leg of the race is a data collection opportunity as experimental sensors onboard the Biotherm IMOCA captures key information about phytoplankton and the health of our ocean. These data will complement Tara Océan Foundation's research by travelling to places the research vessel cannot, notably during the historic Southern Ocean leg during the 2023 edition of The Ocean Race.

**Paul Meilhat,
an unparalleled sailor, committed to a better future for our oceans**

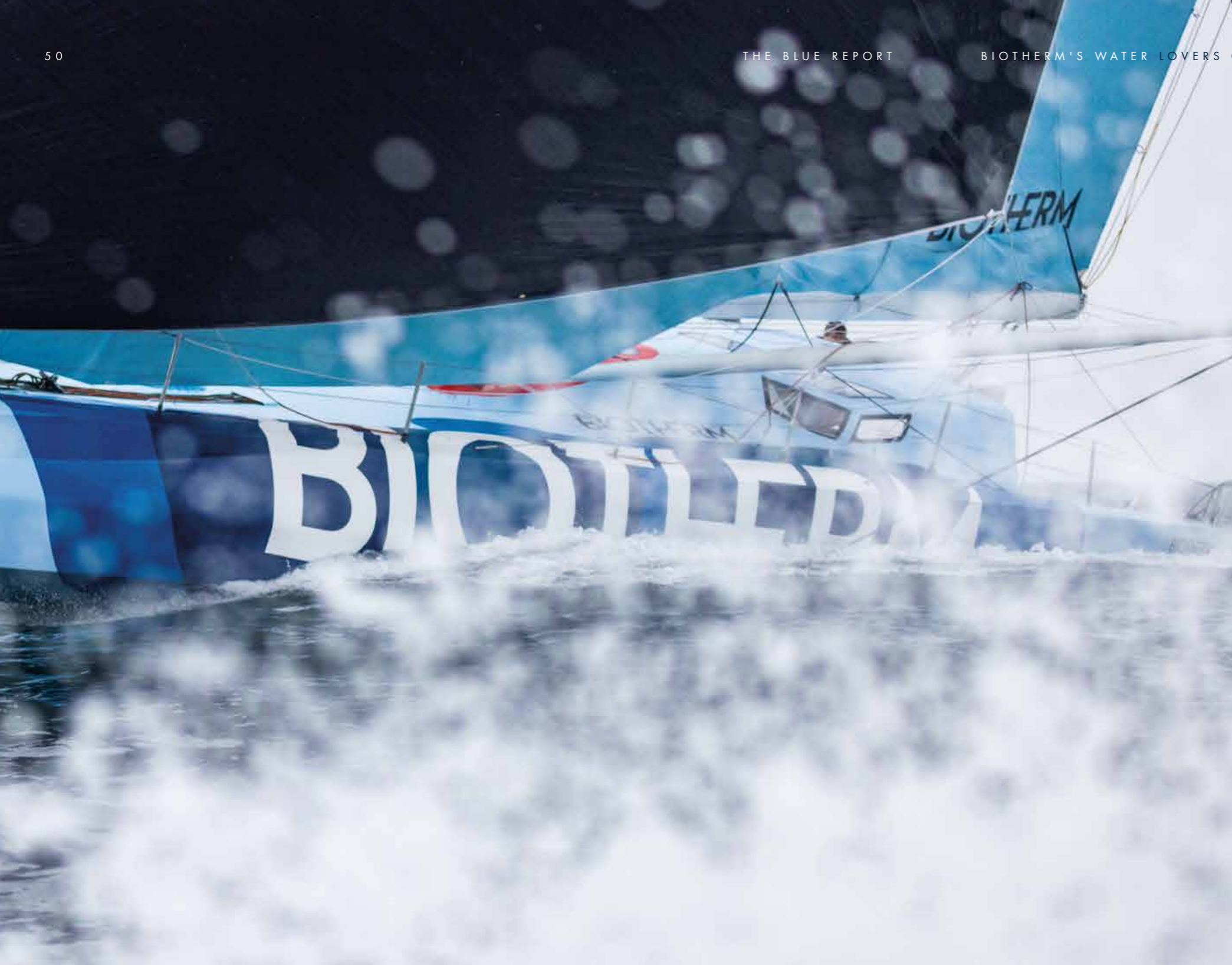
Inspired by his father's passion for sailing and boats, Paul Meilhat began sailing at a young age, alternating between the bodies of water in the Paris region and the Atlantic Ocean off the coast of Brittany. Paul first honed his skills as a helmsperson and tactician training for the Olympics but was seduced by the freedom and excitement of offshore sailing. His atypical training, profile, and promising potential were immediately spotted. Paul is more than a competitor. Over the years, he has become an actor, promoter and protector of his environment. In 2020, with Surfrider and supported by a pool of corporate sponsors, Paul launched the "Echappée Bleue" (Blue Escape) operation to introduce sailing to children who have never had the opportunity, some of whom have never even seen the sea.

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**A WORD FROM GREGORY BENOIT,
GLOBAL BRAND PRESIDENT OF BIOTHERM**

"Understanding the ocean is the first step to help protect it. Our racing program with Paul Meilhat is a part of our commitment to the ocean; beyond racing and raising awareness about the importance of ocean preservation, we want to have a tangible impact in protecting its future".



The Biotherm IMOCA: design, inspired by nature, for nature

Biotherm is an IMOCA 60 sailing yacht known for the way that the vessels seem to "fly" on their foil appendages when moving at top speeds. Biotherm is 18.28 meters long and 4.5 meters wide. The artwork of Biotherm draws on the abstract beauty of cellular art. Like the vessel's research ambition to study the ocean's microbiome through the collaboration with Tara Océan Foundation, the forms appear through a microscope – echoing both nature and the forms of Biotherm's most iconic products. The red accents pay homage to the bright red of Biotherm Homme, the brand's dedicated men's skincare. The vessel also carries our Water Lovers commitments on some of its iconic sails.



**A WORD FROM PAUL MEILHAT,
IMOCA SKIPPER**

"From the beginning, we agreed that the Biotherm Racing program has to be about more than sailing. We both want to win, but we also want to have a bigger societal impact. We want to make people more aware of our ocean's issues today. As a sailor, you see the impact of climate change firsthand. The Ocean Race is the perfect moment to launch this research project as the race has put sustainability at its core".

An automated phytoplankton microscope onboard Biotherm in 2023

To achieve this challenging mission, scientific partners of the Tara Ocean Foundation and sailors from the Biotherm Racing team are installing a novel state-of-the-art automated microscope aboard the Biotherm IMOCA: an Imaging FlowCytobot (IFCB). The device combines flow cytometry and video technology to capture high resolution images of microscopic particles such as phytoplankton in aquatic environments. In short, the Imaging FlowCytobot will behave as an automated microscope: it will take small samples of water from understudied parts of the ocean to create geolocalized datasets of microscopic marine life.

Depending on the phytoplankton density in a given area, the device can produce up to 30,000 high resolution images per hour, effectively helping researchers access extremely clear images of microscopic ocean life. The device weighs approximately 40kg and will be integrated in the Biotherm IMOCA in order to collect data automatically and shall not require intervention from the sailing team during the races.

Beyond researching local biodiversity, the data collected by Biotherm will help Tara Ocean Foundation and their research partners to devise new algorithms to study phytoplankton diversity from developing space-based satellites. In the future, these developing research methods will help us gain significantly more information on the properties of the marine biodiversity in the upper ocean than what is available today.

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**A WORD FROM ROMAIN TROUBLÉ,
EXECUTIVE DIRECTOR OF TARA OCEAN
FOUNDATION**

"This project will help our global understanding of the carbon budget in the context of climate change. We believe there is a strong difference between what we estimate from space data today and what we measure in the upper ocean. With the research project we are implementing onto the Biotherm IMOCA, we can compare colour-based estimates of diatom carbon from satellites to direct measurements obtained via the Imaging FlowCytobot on Biotherm. This information on biodiversity in the high seas and remote areas of our ocean will complement those collected on Tara. In the context of The Ocean Race, this is particularly helpful as Paul Meilhat and the crew onboard Biotherm will be sailing in the Southern Ocean, where Tara and other research vessels have limited experience."

A Shared Desire To Protect: Biotherm And Mission Blue



Beginning in 2012, Biotherm established a long-standing partnership with Mission Blue, an organization dedicated to preserving critical marine areas known as "Hope Spots" that are essential to the ocean's survival. This collaboration has brought together a vast network of over 200 respected ocean conservation groups and organizations, all committed to protecting the ocean and promoting marine protection in Hope Spots. Each Hope Spot is scientifically vetted by a group of ocean scientists led by the International Union for Conservation of Nature (IUCN) to allow the natural systems to function and rebuild themselves. Since 2012, Biotherm has sponsored ten missions across eight Hope Spots with Mission Blue, as part of its Water Lovers program.

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



In 2017, Biotherm partnered with the Tara Océan 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 Océan 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.

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 Oceanographic Institute'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.



APPENDIX



Glossary

Definitions

EcoBeauty score

L’Oreal has sharing insights from our Environmental and Social labelling initiative with the EcoBeautyScore Consortium, which comprises 70 members from the cosmetics and personal care industry, both large and small, and associations spanning four continents. This consortium is a truly global and inclusive initiative that remains open to new members. The consortium aims to develop an industry-wide environmental impact assessment and scoring system for cosmetics products. The first prototype of the EcoBeautyScore system is set to be released by the end of 2023. In the meantime, L’Oreal will continue to implement its system for providing product impact information.

More Bioscience Formulas

— BIOSCIENCE

Bioscience refers to the study of living organisms and their processes. It includes many scientific disciplines, such as biology, microbiology, biochemistry, and more. Bioscience research can range from understanding fundamental biological processes at the cellular and molecular level to investigating complex interactions between formula and skin.

— BIODEGRADABILITY

This is the capacity of a substance to be broken down (‘digested’) by microorganisms in an aqueous medium. It is measured using an internationally recognized method defined by the OECD (Organization for Economic Co-operation and Development) and expressed as a percentage of material broken down (calculated for a given time). The test measures the oxygen bacteria consume or the carbon dioxide they emit while consuming the substance. The biodegradability percentage of a product is obtained by measuring the biodegradability of each ingredient.

A 95% biodegradable product = 95% of the product’s ingredients (in weight) will break down in less than 28 days.

— BIOBASED INGREDIENT

Bio-based ingredient or raw material refers to ingredients or raw materials entirely or partially derived from biomass (whether 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 ingredient in laboratories that can be used for skincare through biological processes without having to source from nature.

More Sustainable Design Solutions

— PCR MATERIAL

PCR stands for "Post-Consumer Recycled" and refers to a material used by its end users and then recycled after it can no 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).

— CIRCULAR ECONOMY

A circular economy is based on optimizing the use of materials and energy produced in the first place. It implies eliminating waste and pollution, circulating products and materials and regenerating nature—transitioning from a linear process to a circular one to renew energy and materials.

— PLASTIC CIRCULARITY

first place. It implies eliminating waste and pollution, circulating products and materials and regenerating nature. A transition from a linear process to a circular one to renew energy and materials.

Glossary

Ingredients Library

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.

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.

Formulation Charter

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 skin.

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 have reduced effect on aquatic life.

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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