



# Novozymes Water & Waste Management

Product catalogue

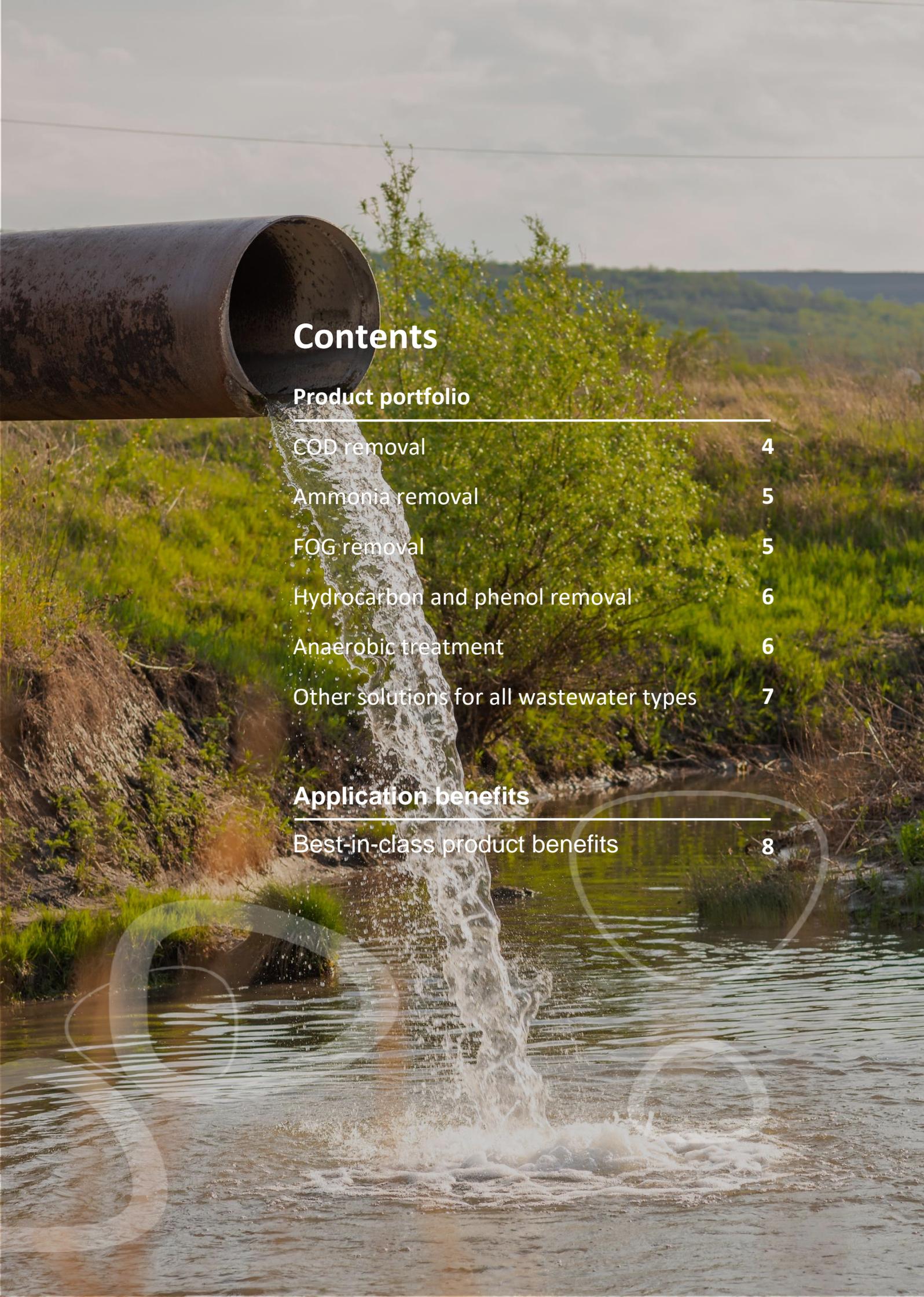
Rethink Tomorrow

novozymes 



As the world leader in industrial enzymes and microorganisms, Novozymes has specialized expertise in developing and applying biological products for wastewater treatment and biogas generation. Together with our partners, we are constantly looking for new ways to lower the cost of wastewater treatment, simplify the treatment process, and increase plant efficiency to meet the inevitable requirements of tomorrow.

Clean water and clean energy are at a premium and Novozymes will continue to lead the way for providing sustainable solutions through biotechnology.



# Contents

## Product portfolio

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COD removal	4
Ammonia removal	5
FOG removal	5
Hydrocarbon and phenol removal	6
Anaerobic treatment	6
Other solutions for all wastewater types	7

## Application benefits

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Best-in-class product benefits	8
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# Novozymes **best-in-class** bioaugmentation product portfolio

## COD removal

### BioRemove™ COD

<b>Main application:</b>	COD removal
<b>Target industries:</b>	All wastewater types
<p>BioRemove™ COD is Novozymes’ most versatile product for both industrial and municipal wastewater and is effective for highly complex waste streams. It has a diverse set of microorganisms that target a wide range of organics found in a variety of industries and boosts plant performance. Benefits include improved settling, lower COD, and improved system stability.</p>	
<b>Physical form:</b>	Powder
<b>Packaging options:</b>	11.35 kg pail (25 x 454 g solupaks) 24 pails per pallet



### BioRemove™ COD LT

<b>Main application:</b>	COD removal at low temperatures
<b>Target industries:</b>	All wastewater types
<p>BioRemove™ COD LT effectively degrades COD even at temperatures as low as 2 °C (36 °F). The microorganisms in this blend have been carefully selected for their ability to thrive at low temperatures. With BioRemove™ COD LT, you can keep your plant stable and effluent quality high all through the winter months. BioRemove™ COD LT is also suitable for use at system start-up.</p>	
<b>Physical form:</b>	Powder
<b>Packaging options:</b>	11.35 kg pail (25 x 454 g solupaks) 24 pails per pallet



### BioRemove™ COD SF

<b>Main application:</b>	Surfactant-based COD removal
<b>Target industries:</b>	All wastewater types
<p>BioRemove™ COD SF delivers improved degradation of non-ionic and anionic surfactants. The result is less foaming and fewer severe surfactant-related upsets at your plant. BioRemove™ COD SF is suitable for use at system start-up</p>	
<b>Physical form:</b>	Powder
<b>Packaging options:</b>	11.35 kg pail (25 x 454 g solupaks) 24 pails per pallet



## Ammonia removal

### BioRemove™ AM

<b>Main application:</b>	Ammonia removal
<b>Target industries:</b>	All wastewater types

BioRemove™ AM is the fastest, most reliable solution for consistent nitrification. It simplifies your wastewater system at both start-up and once operations are underway. It also helps prevent ammonia-related permit violations and operational surcharges.

<b>Physical form:</b>	Liquid
<b>Packaging options:</b>	4.5 kg jug (requires refrigeration)



## FOG removal

### BioRemove™ FOG

<b>Main application:</b>	FOG removal
<b>Target industries:</b>	Food & beverage

BioRemove™ FOG degrades fats, oils, and grease (FOG) quickly and completely. The robust microorganisms in this blend thrive in a wide range of plants and applications including system start-up. With BioRemove™ FOG, you can cut the time, effort and costs associated with FOG and their removal.

<b>Physical form:</b>	Powder*
<b>Packaging options:</b>	11.35 kg pail (25 x 454 g solupaks) 24 pails per pallet



\* liquid version also available

### BioRemove™ FOG Boost

<b>Main application:</b>	FOG removal
<b>Target industries:</b>	Municipal wastewater

BioRemove™ FOG Boost is a blend of microbes with enzymes added to accelerate reaction times. The result is extra-fast degradation of fats, oils, and grease (FOG). It is designed for municipal waste treatment systems and suitable for use during system start-up. By improving FOG degradation, BioRemove™ FOG Boost can also improve FOG capacity.

<b>Physical form:</b>	Powder
<b>Packaging options:</b>	11.35 kg pail (50 x 227 g solupaks) 24 pails per pallet



# Hydrocarbon and phenol removal

## BioRemove™ HC

<b>Main application:</b>	Hydrocarbon removal
<b>Target industries:</b>	Refining & petrochemical
<p>BioRemove™ HC is the most effective biological product for hydrocarbon reduction. It is a blend of microorganisms developed for petroleum refining and petrochemical plants. It reduces hydrocarbon-related filament outbreaks in their wastewater systems. It is suitable for use at system start-up and improves system stability and efficiency while lowering operating costs.</p>	
<b>Physical form:</b>	Powder*
<b>Packaging options:</b>	11.35 kg pail (25 x 454 g solupaks) 24 pails per pallet



\* liquid version also available

## BioRemove™ Phenol

<b>Main application:</b>	Phenol removal
<b>Target industries:</b>	Refining & petrochemical
<p>The microorganisms in BioRemove™ Phenol can tolerate high concentrations of phenols. That means it is effective at degrading phenols, cresols, and other aromatic hydrocarbons. These include catechol and cumene. The result is better effluent quality, simpler operations, and improved plant stability.</p>	
<b>Physical form:</b>	Powder
<b>Packaging options:</b>	11.35 kg pail (25 x 454 g solupaks) 24 pails per pallet



# Anaerobic treatment

## BG Max™ 3000

<b>Main application:</b>	Anaerobic treatment / biogas generation
<b>Target industries:</b>	Municipal and Food & beverage
<p>BG Max™ 3000 increases biogas production and makes anaerobic systems more efficient. It is ideal for industries that use anaerobic treatment for high-strength wastewaters. BG Max™ 3000 is a blend of beneficial microorganisms and fast-acting enzymes.</p>	
<b>Physical form:</b>	Powder
<b>Packaging options:</b>	11.35 kg pail (25 x 454 g solupaks) or 15 kg pail



# Other biological solutions for wastewater treatment

## OdorCap® 5700

<b>Main application:</b>	Odor control
<b>Target industries:</b>	All wastewater types
<p>OdorCap® 5700 is an advanced blend of microorganisms that targets the main odors associated with wastewater treatment plant, including sulfides, mercaptans, organic acids, and sludge odors.</p>	
<b>Physical form:</b>	Powder*
<b>Packaging options:</b>	11.35 kg pail (25 x 454 solupaks) 24 pails per pallet



\* liquid version also available

## BioSpikes® 5000

<b>Main application:</b>	Sludge reduction for wastewater lagoons
<b>Target industries:</b>	All wastewater types
<p>BioSpikes® 5000 are used in municipal and industrial wastewater lagoons to reduce sludge volume, lower dredging costs, and recover lost treatment capacity. BioSpikes® 5000 contain a combination of beneficial microorganisms, fast-acting enzymes, and essential nutrients.</p>	
<b>Physical form:</b>	Spike (solid)
<b>Packaging options:</b>	18.75 kg case (25 x 150 g spikes) 48 cases per pallet



## BioEase™ 4260

<b>Main application:</b>	Grease control
<b>Target industries:</b>	Municipal wastewater
<p>BioEase™ 4260 helps make grease control easier with its grease-degrading microorganisms and unique delivery system. BioEase™ 4260 is a dissolvable block encased in a mesh bag that is tied on and immersed in the flow. As the block slowly dissolves, it seeds the water with enough grease-degrading microbes to keep grease buildup to a minimum. When the block has completely dissolved, the mesh bag can simply be removed, discarded, and replaced.</p>	
<b>Physical form:</b>	Blocks (solid)
<b>Packaging options:</b>	0.91 kg blocks (for grease traps and small flows). 4 per 3.64 kg case. 2.27 kg blocks (for grease traps and small flows). 4 per 9.08 kg case. 4.54 kg blocks (for municipal collection systems). 4 per 18.16 kg case.



# Novozymes **best-in-class**

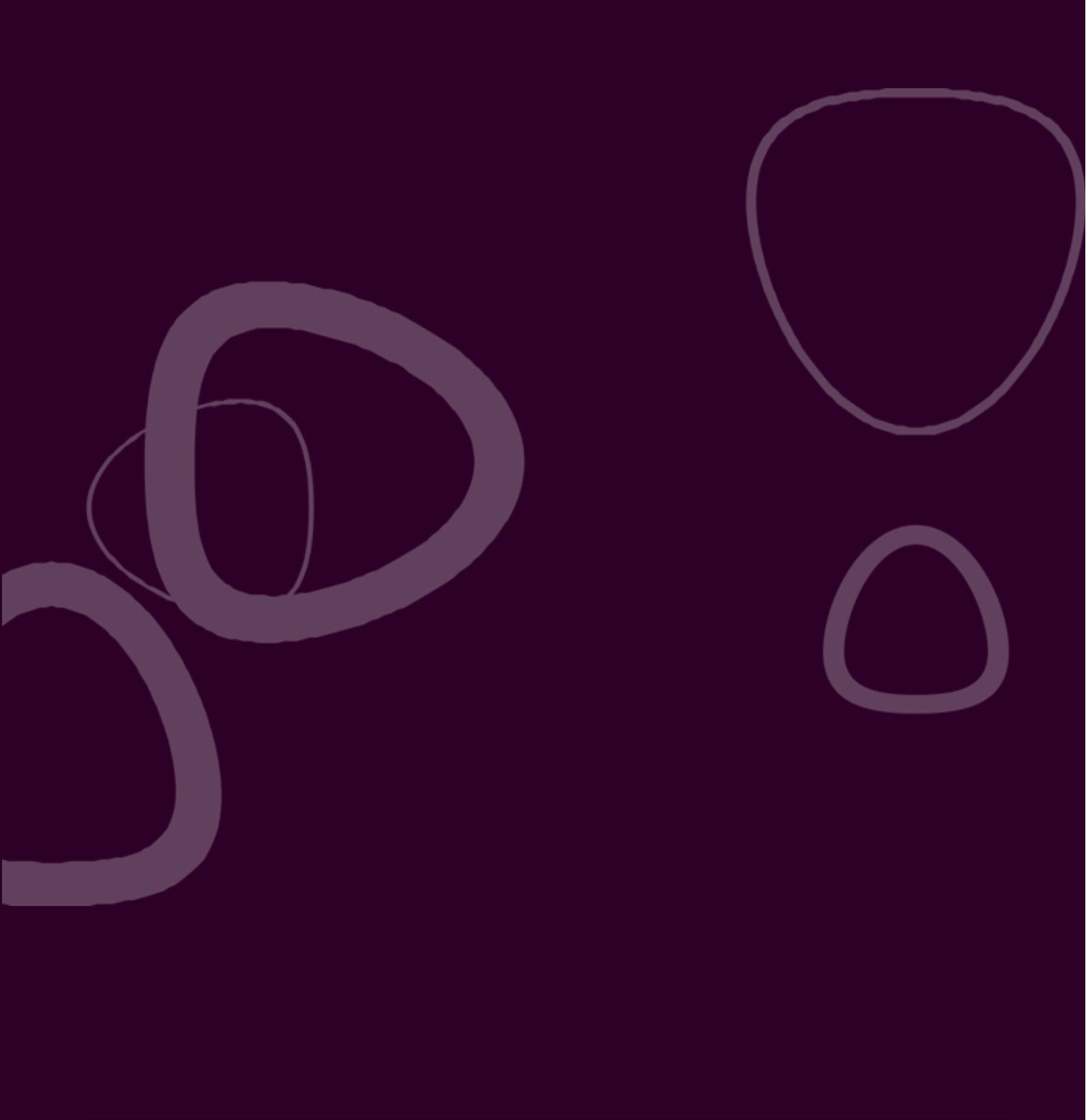
## bioaugmentation product portfolio

X = Does the job

XX = Excels at it

Product	BioRemove™ AM Ammonia removal	BioRemove™ COD COD removal	BioRemove™ COD LT COD removal at low temperatures	BioRemove™ COD SF Surfactant-based COD removal	BioRemove™ FOG FOG removal	BioRemove™ FOG Boost FOG removal	BioRemove™ HC Hydrocarbon removal	BioRemove™ Phenol Phenol removal	BG Max™ 3000 Anaerobic treatment/ biogas
Removes ammonia	XX								
Effective at low temperatures	XX		XX						
Improves floc formation and settleability		XX							
Effective in anoxic and anaerobic environments		X			X				XX
Effectively degrades hard COD		XX	X	X			X	X	
Removes surfactants		X		XX			X	X	
Controls fats, oils, and grease (FOG) levels		X			XX	XX			X
Prevents filamentous foaming		X			XX	XX			
Prevents surfactant-related foaming		X		XX					
Removes hydrocarbon		X					XX	X	
Removes phenol		X					X	XX	
Enhances biogas production									XX

### BENEFITS



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### About Novozymes

Novozymes is the world leader in biological solutions. Together with customers, partners and the global community, we improve industrial performance while preserving the planet's resources and helping build better lives. As the world's largest provider of enzyme and microbial technologies, our bioinnovation enables higher agricultural yields, low-temperature washing, energy-efficient production, renewable fuel and many other benefits that we rely on today and in the future. We call it Rethink Tomorrow.

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