

# Bacta-Rid

Kills Germs, Bacteria and  
SARS-CoV-2 (COVID-19)



# What is Bacta-Rid?

Bacta-Rid is an approved hospital grade anti-bacterial disinfectant spray and fogging mist which kills germs and a broad range of bacteria and viruses including Staphylococcus, Escherichia coli, Salmonella Typhimurium, Bacillus cereus, Listeria monocytogenes, Pseudomonas aeruginosa, Serratia marcescens, Vibrio Parahaemolyticus and SARS-CoV -2 (COVID-19)

## Bacta-Rid

Distilled water

Purified and distilled Tea Tree water

HOCL Solution

Stabilising agent

**Please** don't be mistaken that **Chloride** is the same as the chemical **Chlorine**.

The difference between chlorine and chloride is that chlorine is a chemical whereas chloride is known as a negative charged ion. In living organisms, HOCL is generated by the reaction of hydrogen peroxide with chloride ions under the catalysis of the Heme enzyme myeloperoxidase (MPO).

**Bacta-Rid** is safe to use around the house, in offices, in the transport industry, aged care, hospitals, dentistry and childcare areas.





# What Makes Bacta-Rid Unique?

There are a number of other sanitisers and bacterial solutions on the market that contains HOCL.

What makes Bacta-Rid unique is through a patented process Bacta-Rid has been developed with an ability to stabilise the bonding process and fortify the concentration so that the HOCL liquid solution remains active for at least 12 months after manufacture.

One of the other unique features of Bacta-Rid is that it contains purified Tea Tree water with all its benefits.

Bacta-Rid is an anti-bacterial disinfectant spray and mist which kills 99.9% of germs and a broad range of bacteria and viruses including Staphylococcus, Escherichia coli, Salmonella, Typhimurium, Bacillus cereus, Listeria monocytogenes, Pseudomonas aeruginosa, Serratia marcescens and Vibrio Parahaemolyticus.

Bacta-Rid is a hard surface anti-bacterial disinfectant only. This product is not intended for use on medical devices or other therapeutic goods.



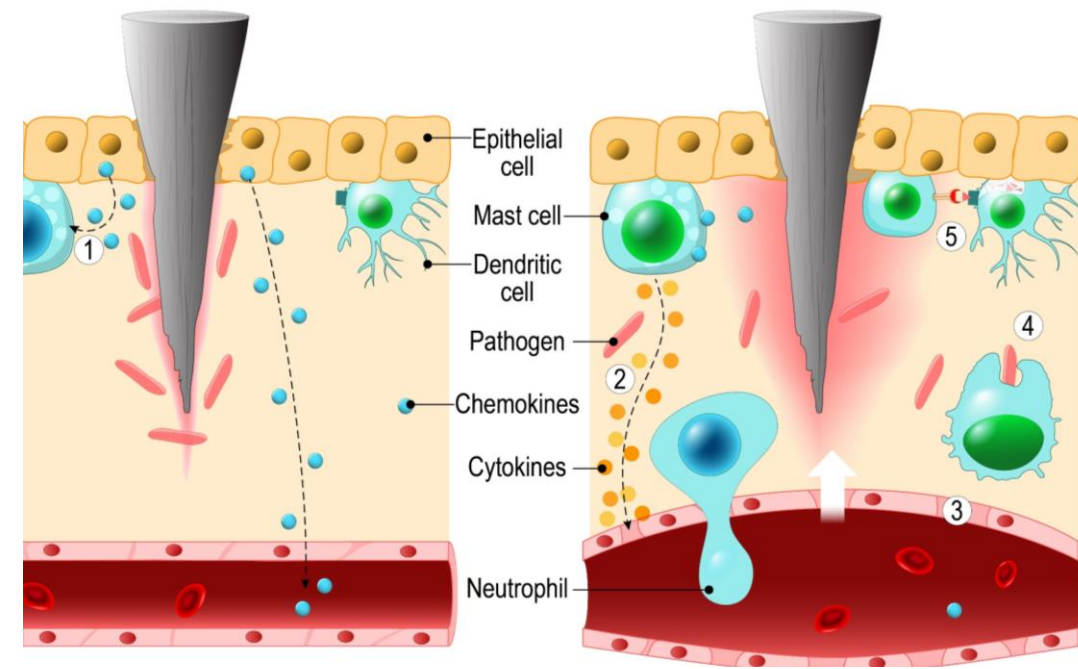
# How it Works

Our body has its own defence known as white blood cells that use HOCL (Hypochlorous Acid) and other compounds to combat foreign invading microorganisms like bacteria, fungi and viruses.

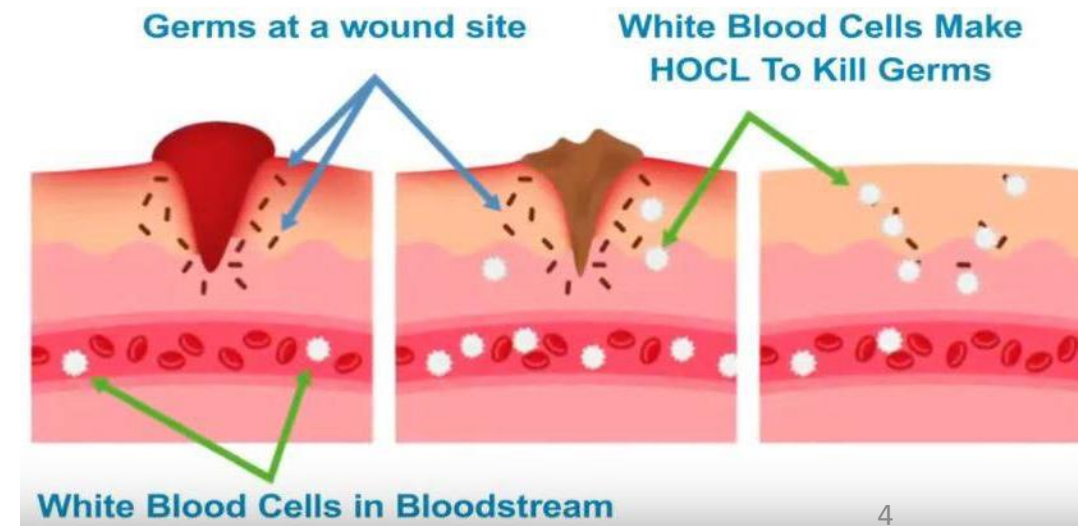
These white blood cells (also known as neutrophils) respond to any tissue invasion by migrating to the site of infection. Neutrophils seek out these invading micro-organisms, surround and eliminate them by injecting them with cytotoxins containing HOCL naturally made in your body. This process is known as phagocytosis.

HOCL is a weak acid that is formed when chlorine (a gas) dissolves in purified distilled water. Paradise Nutrients uses it as an active ingredient in sanitizers and disinfectants (Bacta-Rid). Because of its ability to break down bacterial and viral cell membranes, the same way HOCL is used by your immune system white blood cells, to breakdown bacterial and viral cell proteins and inject cytotoxins into the invading cells to kill them off.

Bacta-Rid has been developed with the ability to stabilise the bonding process and fortify the concentration so that the HOCL liquid solution remains active for at least 12 months after manufacture.



**White Blood Cells Use HOCL To Kill Germs**



**White Blood Cells in Bloodstream**

# Benefits of Bacta-Rid Ingredients

- ✓ 99.9% Effective anti-bacterial disinfectant (surface and airborne)
- ✓ Eliminates COVID-19 faster than alcohol and bleach-based sanitisers
- ✓ Non-toxic/non-flammable
- ✓ Residue free, tasteless, odourless, baby/child, pet, allergy and ECO friendly
- ✓ Eliminates a wider range of bacteria, fungus and infection types than alcohol and bleach
- ✓ pH neutral/water based (pH level 7, won't dry out skin or leave residue, smell or taste like alcohol and bleach)
- ✓ Broad-spectrum of application – Used as a surface cleaner in meat/produce/food manufacturing, non-corrosive coolant and much more...



# Sterilization Comparison

General bacteria	Food poisoning bacteria	Pathogens	Fungus	Virus	Mould fungi	Spore forming bacteria
Colon bacterium Staphylococcus	Salmonella	Cholera	Fungus Yeast	Influenza Norovirus	Candida	Bacillus cereus Botulinum
						paradisēnutrients Bacta-Rid
		Chlorine Bleach (Naocl)				
Alcohol						

**HOCL is highly effective when it comes to eliminating spore-forming bacteria.  
HOCL can eliminate a wider range of harmful viruses, germs and bacteria. (total of 12 species )**

Sample	Escherichia coli	Bacillus cereus	Listeria monocytogenes
Bacta-Rid HOCL	99.99	99.99	99.99
NaOCl_100 ppm	Under 60	-	-
Ethanol 70%	99.99	99.99	99.99

**Bacta-Rid HOCL has sterilising power equal to or greater than NaOCl and ethanol for pathogenic food poisoning micro-organisms such as Escherichia coli, Bacillus cereus and Listeria monocytogenes.**

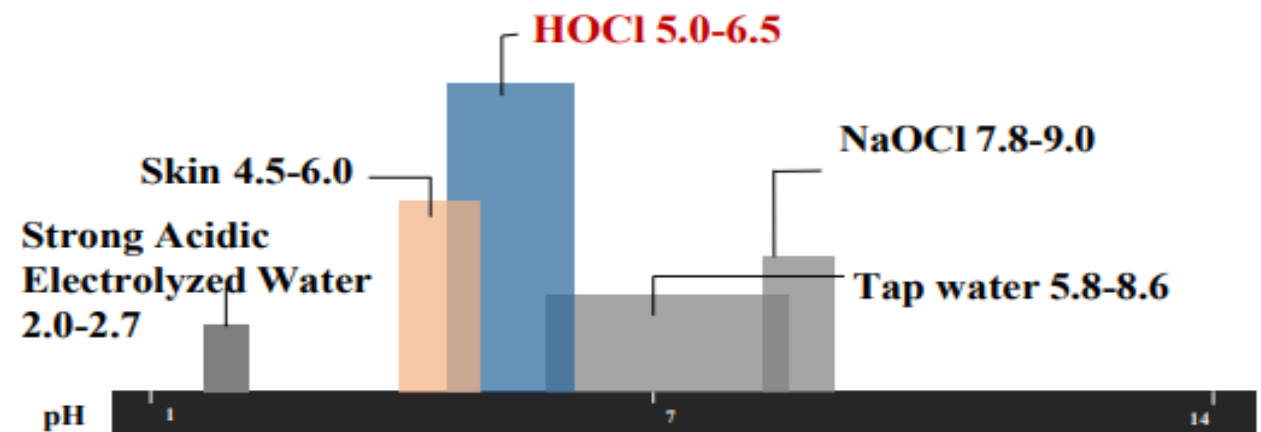
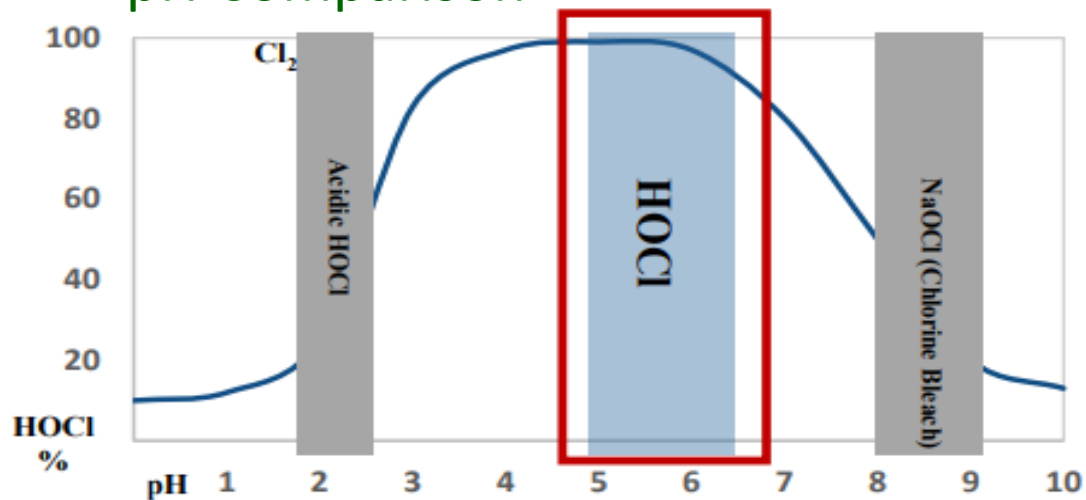


# Toxicity and Risk Comparison

Substance	Cas No.	Flash Point	Acute Toxicity Oral	Ocular Mucosa Irritation	Exposure Criteria (south Korea)
Bacta-Rid	7790-92-3	No Data	Non-toxic or very week	Non irritation	No data
75% Ethanol	64-17-5	13.0	Highly-toxic	Slightly-Irritational	*TWA 1000 ppm
59% Ethanol	64-17-5	22.2	Highly-toxic	Slightly-Irritational	*TWA 1000 ppm
NaOCl	7681-52-9	No Data	Highly-toxic	Slightly-Irritational	*TWA 1000 ppm

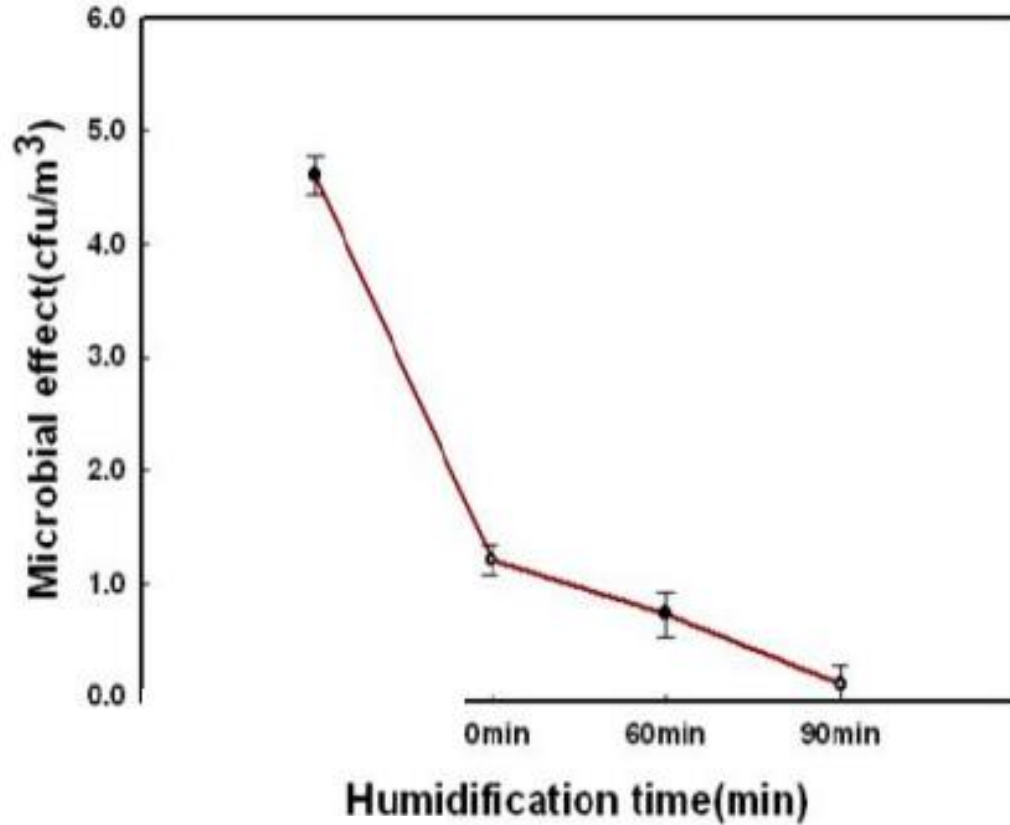
Bacta-Rid is a non-flammable non-toxic and non-irritative steriliser

## pH Comparison

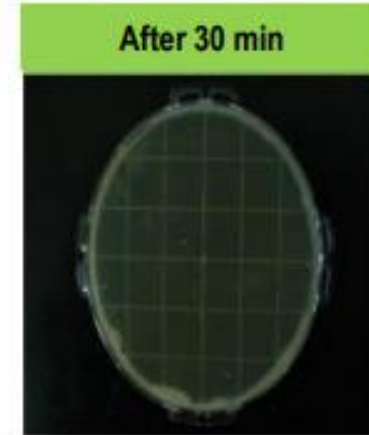


# Bacta-Rid on air born bacteria

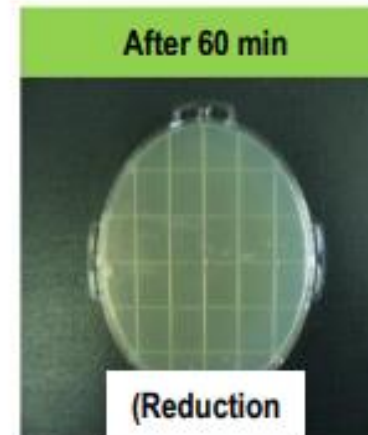
**99.9% Sterilization of Air floating bacteria**



4.61 ± 0.17 log<sub>10</sub>cfu/m<sup>3</sup>



1.20 ± 0.14 log<sub>10</sub>cfu/m<sup>3</sup>  
Reduction 99.96%



0.73 ± 0.20 log<sub>10</sub>cfu/m<sup>3</sup>  
Reduction 99.99%



0.10 ± 0.17 log<sub>10</sub>cfu/m<sup>3</sup>  
Reduction 99.99%



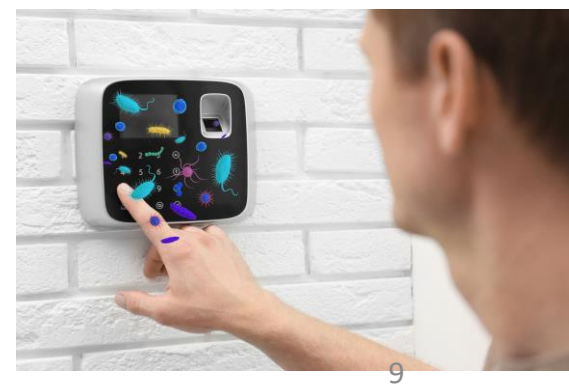


# Validated Products

Bacta-Rid is a fully validated solution that has been successfully tested against EN1276, EN1650, EN13697 and EN13704. Bacta-Rid is designed for household spraying on clothes, cleanroom and pharmaceutical industry use. Suitable for food preparation areas, workplace environments, playgrounds, in the kitchen, in restrooms, at the gym, in cars and buses, on trains, aged care facilities, schools and day care centres.

When used as directed, Bacta-Rid will not affect or damage any materials or equipment and Bacta-Rid will clean off residue including harmful bacteria.

Bacteria and Viruses can be found on any surface in many environments. Bacta-Rid has been proven to kill a number of strains of bacteria in 30 seconds.



# Fogging Machines

- ✓ Kills 99.99% of COVID 19  
(On Contact)
- ✓ Kills Bacteria
- ✓ Non-hazardous
- ✓ Non-toxic
- ✓ Non-flammable
- ✓ Allergy free
- ✓ Alcohol free
- ✓ Child and pet safe
- ✓ Gentle on skin
- ✓ pH neutral
- ✓ Eco friendly
- ✓ Made in Australia





# Hospital Grade Disinfectant

There is no greater place to come in contact with viruses and bacteria than in a hospital.

Bacta-Rid Hospital Grade Disinfectant 9950

ASTM E2315-16 & BSEN 1276 Tested

Bacta-Rid is a disinfectant which kills 99.99% of germs and a broad range of bacteria including Staphylococcus, Escherichia coli, Salmonella, Typhimurium, Bacillus cereus, Listeria monocytogenes, Pseudomonas aeruginosa, Serratia marcescens and Vibrio Parahaemolyticus.

This hospital grade disinfectant has been certified in hospitals as a hard surface disinfectant only. This product is not intended for use on medical devices or other therapeutic goods.





# Dentistry

Another major place for exposure to viruses and bacteria is at the dentist. Not that the dentist surgery is unclean, but it is a place where people go and meet other people such as in the waiting room, at the counter and of course in the dentist chair.

The dentist is exposed to the patient's breath and spit that could be carrying viruses and bacteria. Bacta-Rid hospital grade spray and fogging solution is an excellent safeguard in this area.



# Aged Care

Some of our most venerable people are located in our aged care homes. One of the main reasons why these people are so venerable is because our immune system defence depletes as we age. This is where the invaders of our body play havoc.

One of the best immune support aids we can give is to annihilate the invading viruses and bacteria before they spread throughout the whole building and environment. Killing the bacteria and viruses in these areas where our old people gather is critical and using a non-toxic, non-allogenic and proven product like Bacta-Rid is a responsible way to protect our elderly.





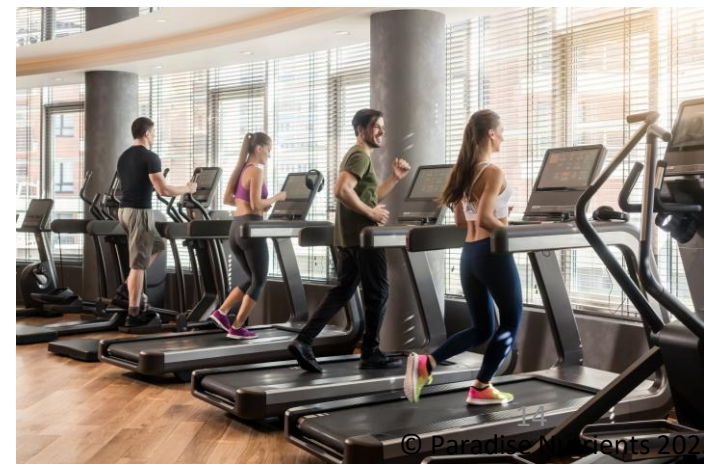
# Gym and Fitness

The Gym has been found by many to be a good place for fitness. Regardless of how diligent cleaners may be, a number of studies have found bacterial and viral families continue to exist on the gym equipment.

Most consistently prevalent were strands of Staphylococcaceae occupied each piece of equipment. Researchers pointed out that bacteria were spread in the gym setting through multiple means which include air, dust, soil, water and human flora.

They found that benign bacteria were present on equipment pre and post-exercise, but pathogenic bacteria was scarce and not prevalent. In respect to virus strains, they found that 63 of the 100 hand-surface areas contained viruses (most commonly rhinovirus, aka the 'common cold'). The researches also noted that weight training equipment contained more viruses than aerobic pieces of equipment.

Bacta-Rid applied through an electro-static fogging machine can cover almost 100% of surface areas and covers areas that you would not consider spraying or even reach. Bacta-Rid offers a safe, non-toxic and non-allergic effective product to use for this environment.





# Day Care Centres

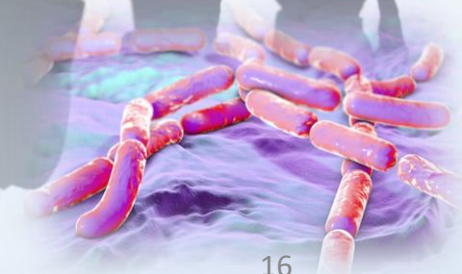
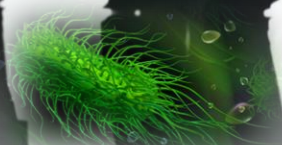
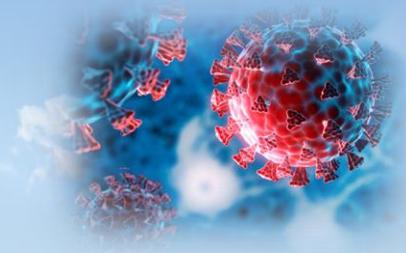
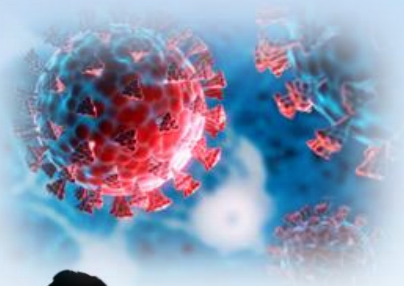
As we drop off our children to day care our concern, as always, is are they safe?

Regardless of how clean we make our childcare centres sooner or later our child will come home with an infection of some sort. Being so young and innocent, small children are exposed to many different germs and viruses and don't completely understand the do's and don'ts of spreading germs, particularly if they have a runny nose, sneeze or cough.

Bacta-Rid is safe to use around children. Our research shows that Bacta-Rid is safe around children, safe on the environment yet kills COVID 19 99.95% in just 30 seconds. It also kills a number of bacteria 99.99% in 20 seconds. Bacta-Rid is safe to spray on toys, rugs and floor mats, tables, chairs and even on their personal bags.



# Bacteria and Virus Information





# COVID-19

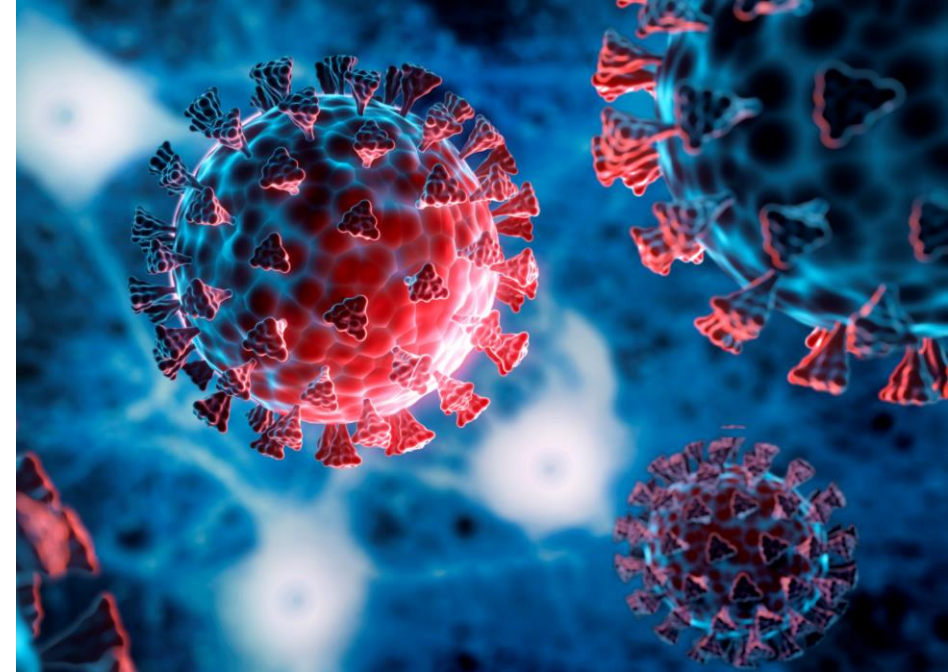
The virus was initially known as the 'Novel Coronavirus (nCoV-2019)', but it's now officially named Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). The infectious disease caused by this virus is called COVID-19.

A variant is when a virus mutates slightly, or changes. Variants frequently happen in viruses, but sometimes a variant can make the virus spread more easily and can make symptoms worse.

The original COVID-19 virus has had many variants since it was first discovered. Most people infected with COVID-19 experience mild or moderate symptoms - fever and cough are the most commonly reported symptoms. However, in more severe cases breathing difficulties can develop into pneumonia. Longer lasting symptoms can include prolonged loss of energy.

COVID-19 is spread between people through breathing in air when close to an infected person who is exhaling droplets that contain the virus or indirect contact such as touching contaminated objects or surfaces.

When people with the virus sneeze, cough or touch surfaces, they may leave infected droplets on these surfaces. The virus can survive on these surfaces for several hours to a few days.





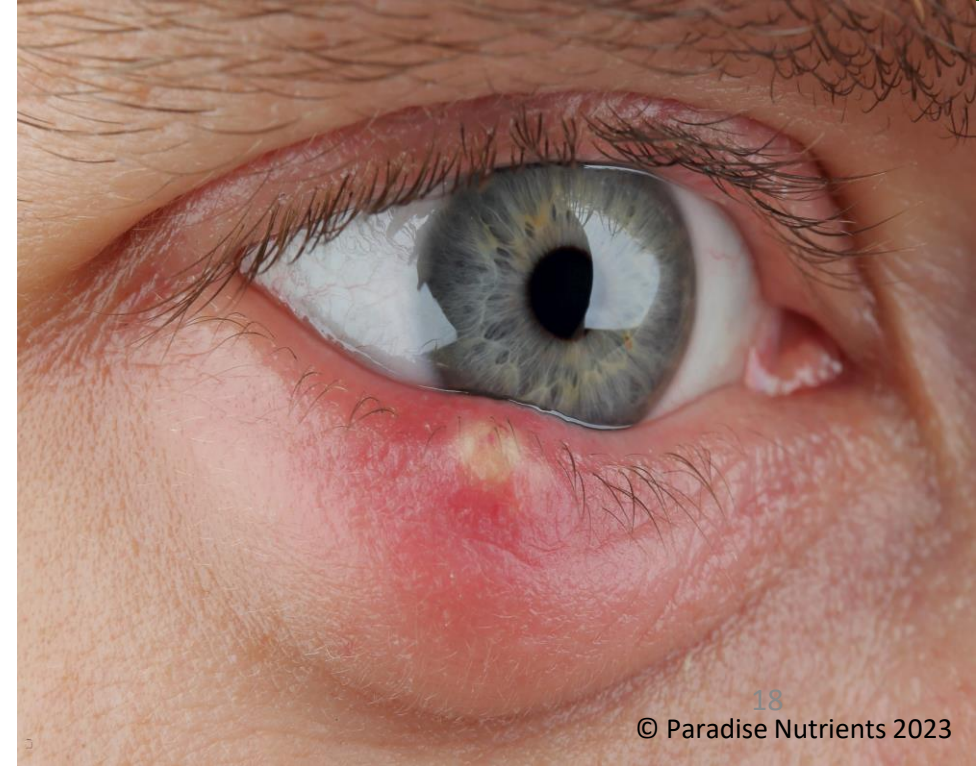
# Staphylococcus

**Golden staph** is commonly carried on the skin or in the nose of healthy people. Around two to three out of every ten people carry the bacterium in their noses. This is known as 'colonisation' – the bacteria are present, but do not cause infection. The armpits (axilla), groin and under skin folds are other places golden staph likes to inhabit.

Golden staph can be spread by skin-on-skin contact or by touching contaminated surfaces. Poor personal hygiene and not covering open wounds can lead to infection with golden staph. Thorough hand washing and good housekeeping, such as damp dusting, are important as golden staph is part of our environment.

**Common infections caused by golden staph include:** boils and abscesses – infections of the skin, impetigo (school sores) – a highly contagious, crusty skin infection that may affect new-born babies and schoolchildren.

**More serious infections include:** meningitis – an infection of the membranes lining the brain, osteomyelitis – infection of the bone and bone marrow, pneumonia – infection of one or both lungs, septic phlebitis – infection of a vein, endocarditis – infection of the heart valves.



# Escherichia Coli

E. coli is an intestinal pathogen or commensal of the human or animal intestine and is voided in the faeces remaining viable in the environment only for some days.

Escherichia coli (abbreviated as E. coli) is also found in the environment and food. E. coli are a large and diverse group of bacteria. Although most strains of E. coli are harmless, others can make you sick. Some kinds of E. coli can cause diarrhoea, while others cause urinary tract infections, respiratory illness, pneumonia and other illnesses.

All E. coli infection symptoms and the infection itself, come from swallowing the bacteria. Because E. coli lives in the intestines of animals and humans, it gets excreted in human and animal faeces. If those faeces contaminate your food or water, you can then be exposed to the E. coli bacteria.

Food is the most common risk factor. Approximately 65 percent of E. coli outbreaks come from contaminated food or water.





# Salmonella Typhimurium

Salmonella are a group of bacteria that can cause gastrointestinal illness and fever called salmonellosis.

Salmonella can be spread by food handlers who do not wash their hands and/or the surfaces and tools they use between food preparation steps and when people eat raw or undercooked foods. Salmonella can also spread from animals to people. People who have direct contact with certain animals, including poultry and reptiles, can spread the bacteria from the animals to food if they do not practice proper hand washing hygiene before handling food.

Most people infected with Salmonella will begin to develop symptoms 12 to 72 hours after infection. The illness, salmonellosis, usually lasts four to seven days and most people recover without treatment.

Most people with salmonellosis develop diarrhoea, fever and abdominal cramps. More severe cases of salmonellosis may include a high fever, aches, headaches, lethargy, a rash, blood in the urine or stool and in some cases may become fatal. Pets can also spread the bacteria within the home environment if they eat food contaminated with Salmonella.



# Bacillus cereus

Bacillus cereus (*B. cereus*) is a spore-forming bacteria that is so small you can only see it through a microscope. *B. cereus* commonly exists in the environment. This bacterium produces a harmful substance (toxin) that can make you sick.

Bacillus cereus is a facultatively anaerobic, toxin-producing gram-positive bacterium found in soil, vegetation and food.

It commonly causes intestinal illnesses with nausea, vomiting and diarrhoea. However, it has been associated with serious infections in immunocompromised hosts and can cause septicaemia as well as endophthalmitis, which can lead to vision loss.

Non-intestinal *B. cereus* affects your body outside of your gastrointestinal tract. It most commonly shows up in your eyes, respiratory system and wounds. This bacterium can be in dust, plants, soil and water.





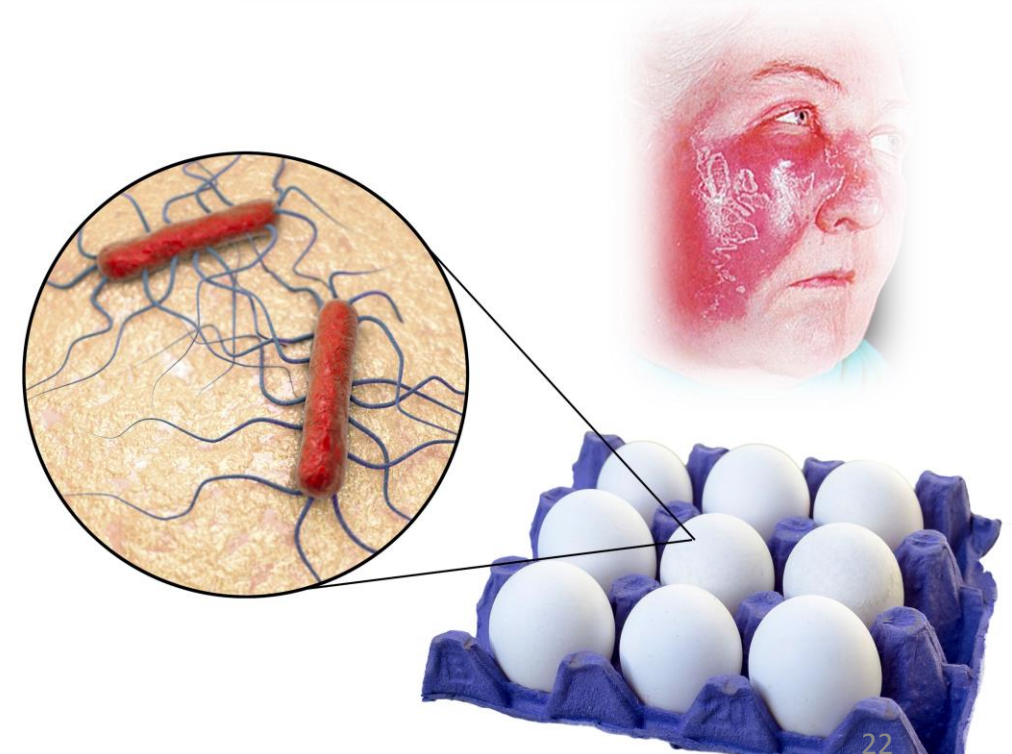
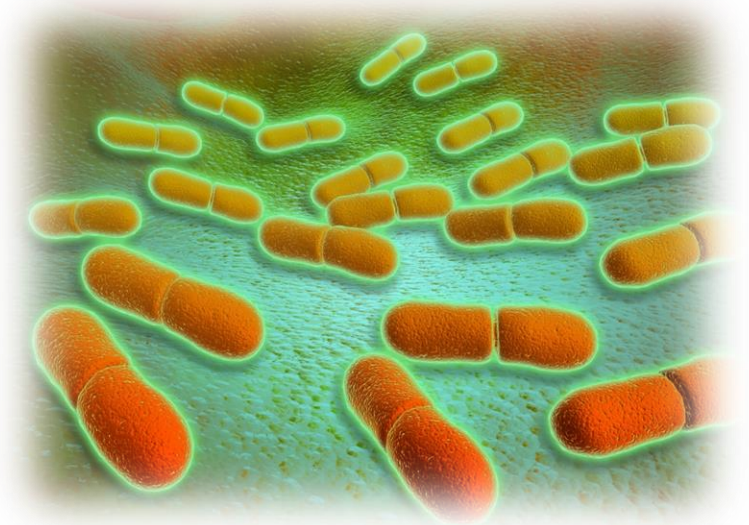
# Listeria monocytogenes

Listeria are a naturally occurring bacteria that live generally harmlessly in the soil, water and natural environment. However, Listeria do have a species that is dangerous to our health known as Listeria monocytogenes.

A person with Listeriosis usually has a fever, muscle aches and gastrointestinal symptoms such as nausea or diarrhoea. If the infection spreads to the nervous system, symptoms such as headache, stiff neck, loss of balance, confusion or convulsions can occur. With brain involvement, Listeriosis may mimic a stroke.

Listeria monocytogenes is a pathogenic bacteria that causes the infection, Listeriosis. It is capable of surviving in the presence or absence of oxygen. It can grow and reproduce inside the host's cells and is one of the most virulent foodborne pathogens: 20% to 30% of foodborne listeriosis infections in high-risk individuals may be fatal.

This Listeria monocytogenes bacterium is known as an opportunistic pathogen, meaning those that are already ill or have a low immune system are most likely to suffer from an infection.

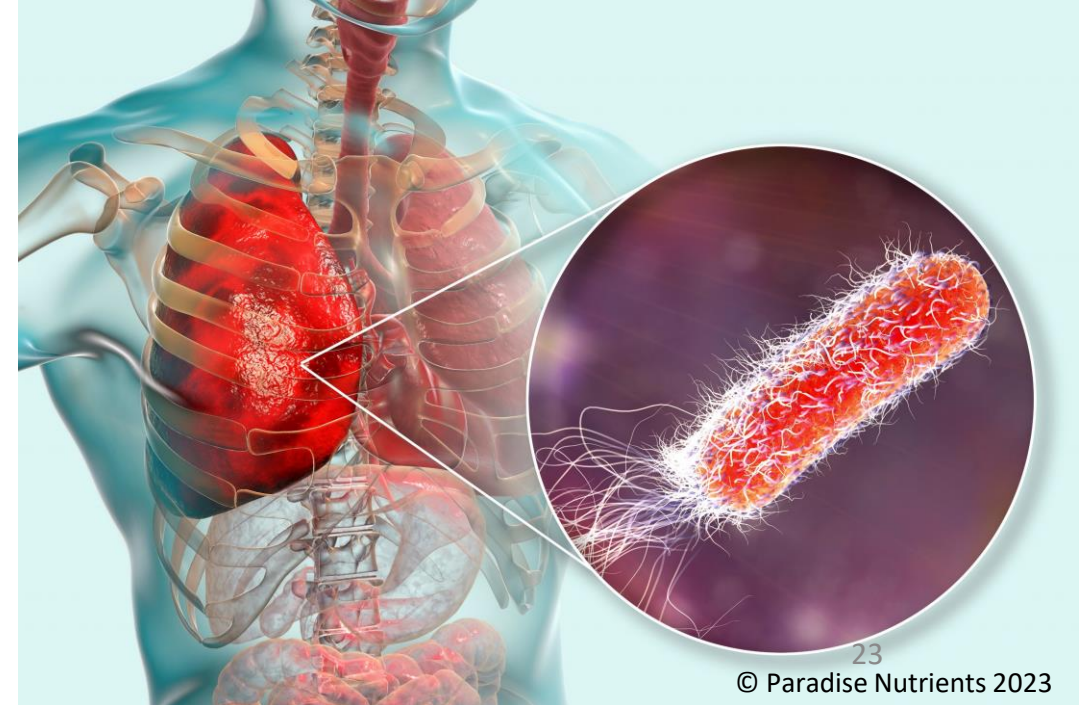
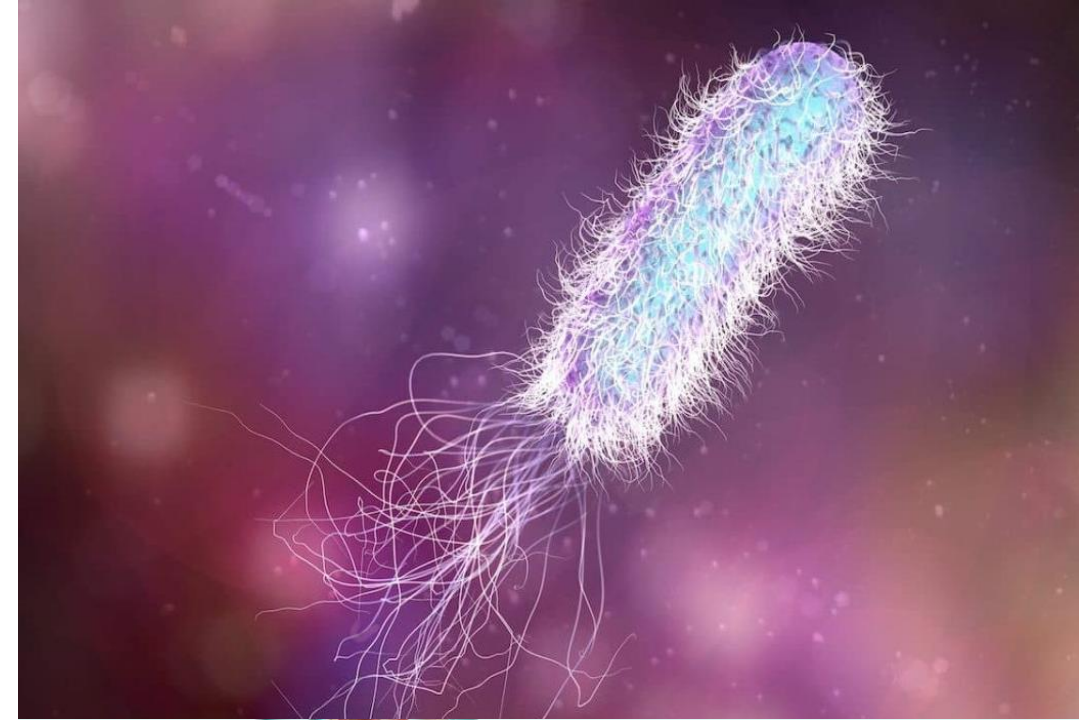


# Pseudomonas aeruginosa

Pseudomonas is a type of bacteria (germ) that is found commonly in the environment, like in soil and water. Of the many different types of Pseudomonas, the one that most often causes infections in humans is called Pseudomonas aeruginosa, which can cause infections in the blood, lungs (pneumonia), or other parts of the body after surgery.

These bacteria are constantly finding new ways to avoid the effects of the antibiotics used to treat the infections they cause. Antibiotic resistance occurs when the germs no longer respond to the antibiotics designed to kill them. If they develop resistance to several types of antibiotics, these germs can become multidrug-resistant.

Pseudomonas aeruginosa can spread to people in healthcare settings when they are exposed to water or soil that is contaminated with these germs. Resistant strains of the germ can also spread in healthcare settings from one person to another through contaminated hands, equipment or surfaces.

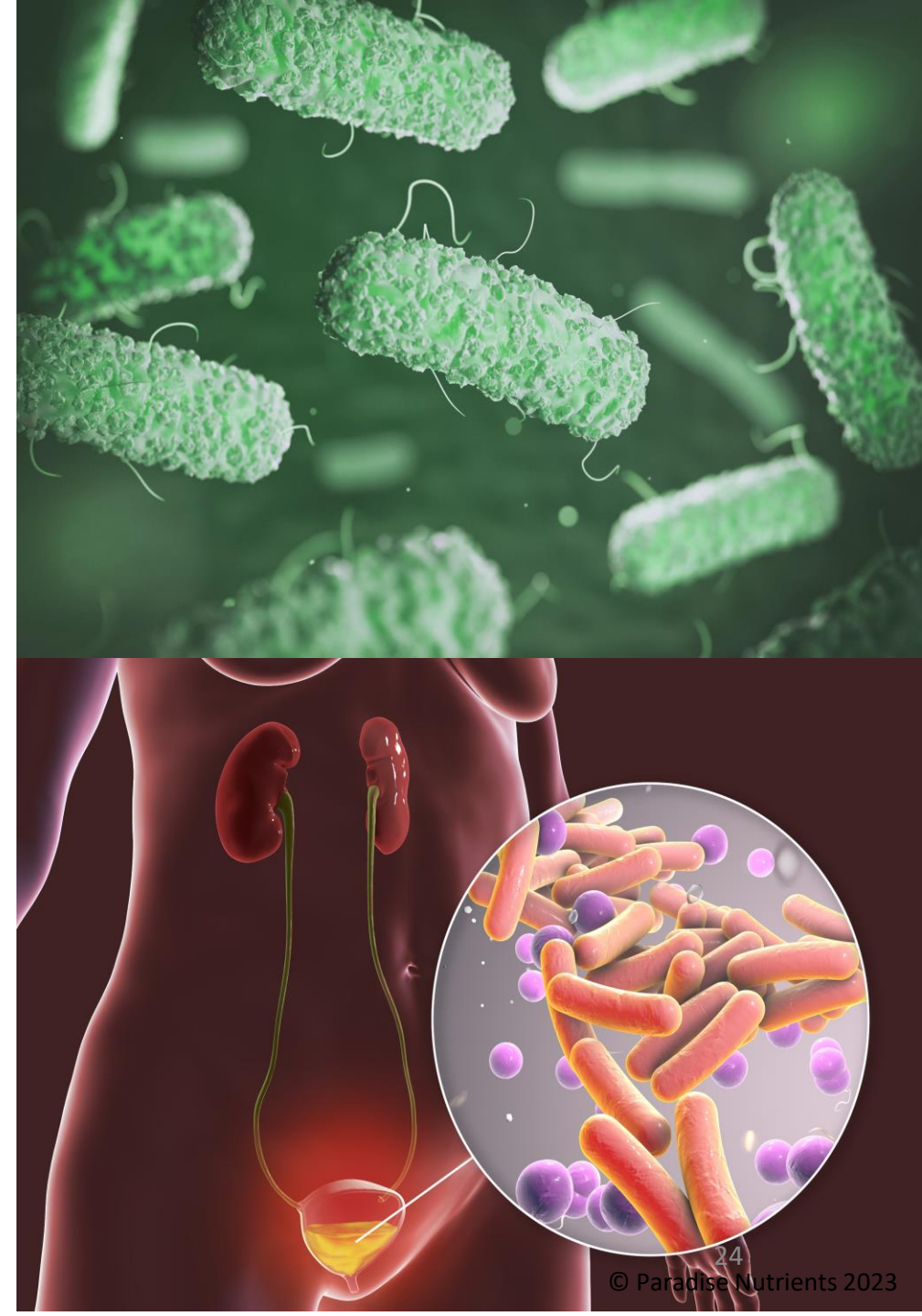




# Serratia marcescens

*Serratia marcescens* is an opportunistic pathogen that is primarily responsible for hospital-related infections. *Serratia marcescens* (*S. marcescens*) is a member of the Enterobacteriaceae family commonly found in water, soil, animals, insects and plants. *Serratia* infection symptoms depend on the localization of the infection and its spread. *Serratia marcescens* can cause infections in several areas of the body including the eyes, urinary tract and respiratory system. The bloodstream is the most common location of the infection, followed by the respiratory apparatus and the gastrointestinal tract.

If an infected hand touches certain body parts and natural immunity cannot combat the colonization of the pathogen, it can lead to symptoms such as:- fever, chills, shock, respiratory distress, frequent urination, difficulty or pain with urination, white blood cells in the urine, hypotension (low blood pressure), chest pain, headache, vomiting, stupor, coma, liver abscess, pancreatic abscess, peritoneal fluid secretion, petechiae (pinpoint, round spots on the skin) and blood clot complications (stroke, arterial emboli). Other symptoms include eye redness and watery eyes, eye pain or feeling of something in the eye, impaired or blurred vision, sensitivity to light, cellulitis, skin infections, earaches, hearing loss or ear discharge.



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