

Removing odors in the hotels and holiday accommodations

Pros and cons of the existing solutions, and the superiority of odor removing by probiotics



BIOSEP NORDIC

W H I T E P A P E R 2 0 2 5

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Probiotics which, unlike the
many existing solutions, offer
multiple advantages in terms
of their effectiveness. , their
ecological impact but also their
benevolent action for all the
people who breathe them

INTRODUCTION



The hygiene of tomorrow is Cleaner. Greener. HEALTHIER.

Eliminating bad odors in the hotel sector is a constant challenge. Whatever their cause is - food, humidity, perspiration, pipes, pets or even cigarettes, bad odors negatively affect the customer experience and their satisfaction rating.

This white paper is intended for hotel managers and house keepers and more broadly, for all people facing annoying odors in their tourist accommodation. We review the existing methods for eliminating these stubborn odors and highlight the remarkable benefits of probiotics.

The cause of bad odors

The bacteria are responsible



The origin of bad odors most often results from the feeding process of certain types of bacteria present in our environment. To feed and grow, these bacteria produce specific enzymes that break down dust, sweat and organic dirt into smaller molecules that are easier to ingest. In doing so, they release volatile and smelly compounds.

Bad odors are therefore most often present in interiors where there are a lot of bacteria that love organic dirt.

To get rid of bad odors in the long term, it is necessary to return to a clean environment, free of these bacteria that produce bad odors.

Existing odor removing solutions

numerous proposals already exist to combat the odor challenges



Among the traditional ones:

- Perfume and essential oil diffusers
- Chemical and natural air fresheners
- Chemical odor neutralizers

Among the more advanced ones:

- Ozone air purifiers
- Germicidal UV lamps
- Air purifiers based on negative ions



1 / PERFUME DIFFUSERS AND ESSENTIAL OILS, THE LEAST EFFECTIVE.

Perfumes and essential oils are effective in masking unpleasant odors by creating a pleasant scent. However, this method does not address the source of the odor and only works to temporarily mask the odor.



2/ CHEMICAL OR NATURAL DEODORANTS, POTENTIALLY TOXIC, ALLERGENIC AND DERMOCAUSTIC.

Like perfume and essential oil diffusers, air fresheners aim to quickly add a nice scent to any room without treating the source of bad odors.

They are therefore, a very temporary and expensive solution due to the need to use them almost continuously.

Furthermore, air fresheners are most often marketed in the form of aerosols which release a fine mist of perfume particles into the air.

Unfortunately, in doing so, most air fresheners also degrade air quality because they simultaneously propel suspended pollutant particles and volatile organic compounds that are potentially harmful to health. Although it must be admitted that the industry has made great progress in reducing the toxicity of air fresheners, manufacturers cannot guarantee their safety.

As for essential oils, although natural, they are not necessarily safe. Essential oils are powerful plant concentrates that can cause irritation and burns to the skin and mucous membranes. Additionally, all “natural” sprays are rarely 100% natural.

It is therefore advisable to read the labels carefully before purchasing and to ensure that the cleaning staff respects the concentrations and recommendations for use, whatever the nature, chemical or natural, of the deodorant.





**3/ CHEMICAL ODOR NEUTRALIZERS,
A SLIGHTLY MORE EFFECTIVE
PROPOSITION BUT WHICH REMAINS
POTENTIALLY HARMFUL AND
TEMPORARY.**

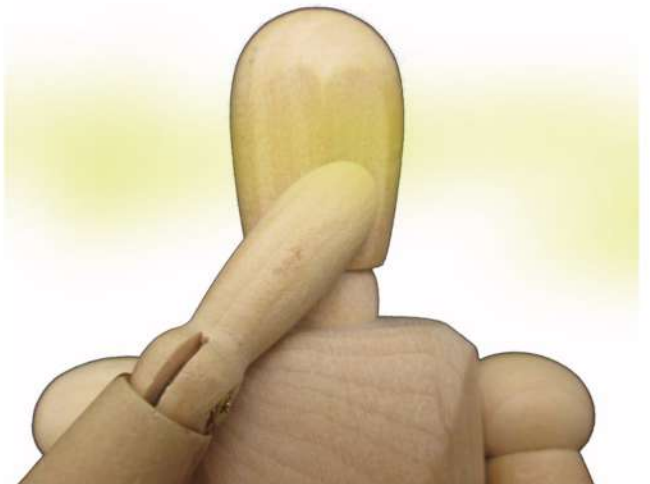
Odor neutralizers most often work by encapsulation. This is a method, based on chemicals, therefore polluting and potentially harmful, which encapsulates odorous molecules. This technological solution is therefore more advanced. However, the encapsulation duration is often very limited. The odorous molecules are therefore quickly released and resume their disturbing action.

This is therefore a very temporary and unprofitable solution. If we add its potentially harmful chemical composition, it is not recommended.

**4/ OZONE AIR PURIFIERS,
ADVANCED TECHNOLOGY, BUT LIKE ODOR NEUTRALIZERS,
HAVE LIMITED EFFECTIVENESS OVER TIME AND ARE
POTENTIALLY HARMFUL TO HEALTH.**

Ozone is a gas that seeks out and destroys odorous molecules in the air through oxidation. The bacteria responsible for bad odors are therefore not eliminated since ozone only destroys the molecules emitted by their enzymes.

or an effective result, ozone emissions must be carried out continuously. However, we know, according to studies, that even brief exposure to ozone can cause all kinds of undesirable effects such as irritation of the eyes, nasal passages and throat, coughing and sore throat. headache. Additionally, ozone is strongly linked to asthma and can worsen its symptoms.



**5 / GERMICIDAL UV LAMPS:
ALSO A TEMPORARY
SOLUTION
POTENTIALLY HARMFUL
DUE TO THE OZONE
EMISSIONS IT GENERATES.**

Germicidal lamps emit ultraviolet rays which decompose oxygen by promoting the diffusion of ozone. On the same principle as the ozone generators mentioned above, the ozone that is emitted oxidizes and destroys the malodorous molecules. The bacteria responsible for bad odors remain active as long as they have organic molecules to feed on. It is therefore a technology whose effects are limited in time. In addition, it is potentially harmful given its adverse effects linked to exposure to ozone.



Caution: Some air ionizers emit a high concentration of ozone, which can cause short-term respiratory problems.



**6/ NEGATIVE ION AIR
PURIFIERS, AN EXPENSIVE
SOLUTION
WHICH DEPENDS ON THE
QUALITY OF THE AIR
FILTRATION SYSTEM AND
WHICH CAN ALSO BE TOXIC
DEPENDING ON THE LEVEL
OF OZONE RELEASE.**

Ambient air is naturally ionized (charged with ions) with a balance between positive and negative ions. Ionization is an air purification technology that generates negative ions, also called anions, in large quantities. These anions, which are negatively charged, will be chemically attracted by bacteria, viruses and indoor pollution particles which are positively charged to gradually weigh them down and make them fall to the ground. In this way, the bacteria are neutralized and are not inhaled.

What about their action on destroying odors?

Although an ionizer has a real action, used alone, its effectiveness is nevertheless very limited. Indeed, with this technology, the bacteria simply fall to the ground and are therefore not eliminated. To be effective, it must be used in conjunction with a complementary filtration system.

CONCLUSIONS ON THE EXISTING SOLUTIONS

MOST EXISTING SOLUTIONS FAIL TO PERMANENTLY ELIMINATE THE CAUSE OF BAD ODORS.

They must therefore be used at high frequency and represent a cost in the profitability of hotel establishments: purchasing and operating costs, staff time for additional recurring cleaning acts.

In addition, all present potential risks of toxicity to the health of cleaning staff and visitors to the establishments who use them.

***BUT THEN,
WHAT TO DO ?***



Discovering probiotic-based odor removers

- MORE EFFECTIVE

- 100% NATURAL
- NON-TOXIC

- BENEFICIAL FOR HEALTH

What are probiotics?



LIVING MICRO- ORGANISMS THAT ARE BENEFICIAL TO HEALTH



Probiotics presents in multitude in our body and in nature. Their mission is to help us protect ourselves from external aggression.

Already known for the beneficial effects on digestion and the immune system, they are so effective and useful that their use has extended to hygiene and cleaning products.

Fun Fact

PRO BIOS = PRO LIFE
ANTI BIOS = ANTI LIFE

There live bacteria...

- 2kg on the human body
- 100 million in the mouth
- 1.25 million in a yogurt



How do probiotics eliminate odors?

PERMANENT ELIMINATION OF ODORS BY ADDRESSING THE PROBLEM AT THE SOURCE

PHASE I

As with chemical odor neutralizers, unpleasant odor molecules are immediately locked away. Therefore, the nose can no longer smell them.

PHASE II

The self-active micro-organisms begin their cleaning work. Their objective is identical to the bacteria responsible for bad odors: to degrade the organic molecules present (sweat, dust, mold, hair, dander, etc.) . They thus eliminate all the molecules that the bacteria responsible for bad odors love. In addition, they multiply, eliminating dirt in the smallest corners and gradually occupying the spaces previously occupied by the bacteria responsible for bad odors.



Probiotics are formidable against bad odors, and also...

+ PURE: ACTION ON THE SOURCE OF THE ODOR PROBLEM

By degrading organic dirt molecules to feed themselves, probiotics deprive the bacteria responsible for bad odors of their own food source and therefore make their living conditions unfavorable for their development.

By gradually taking the place of the bacteria responsible for disturbing odors, probiotics prevent the recurrence of bad odors.

In addition, probiotics are live microorganisms, which have a long-lasting action up to 72 hours after their application for in-depth air purification.



+ HEALTHY: CREATION OF HEALTHY MICROFLORA IN THE AIR

By multiplying probiotics whose beneficial effects on health are proven, recreate a healthy microflora in the air, on surfaces and on textiles. They therefore have a positive impact on the health of your guests and your cleaning staff.



+ GREEN: ADVANCED GREEN TECHNOLOGY

Coming from our natural environment, probiotics are an ecological, natural and 100% safe solution.

THE BENEFITS OF PROBIOTICS

Do you know?

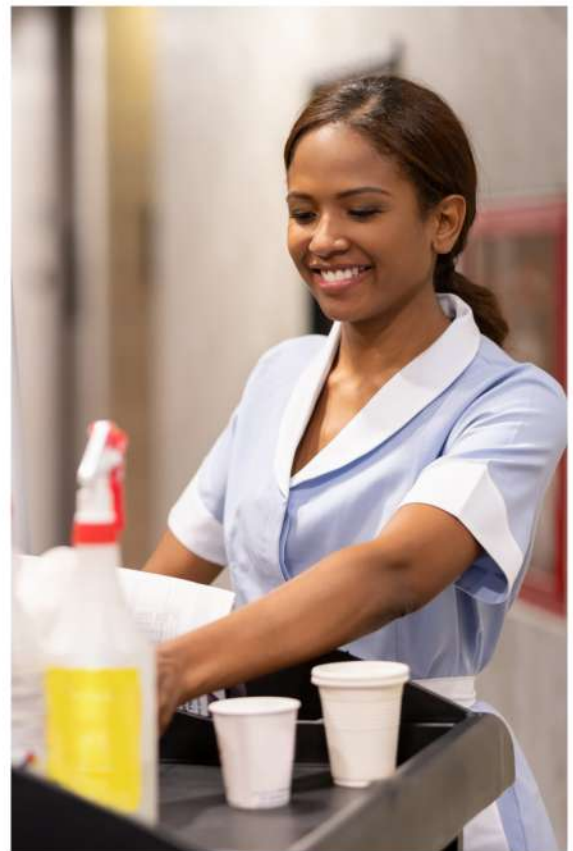
The use of probiotics in cleaning products also solves the public health issue

In addition to the problem of bad odors, probiotics in hygiene and cleaning products also have the mission of solving a public health problem.

Indeed, by seeking at all costs, for many years, to eliminate viruses and bacteria, disinfectant and antiseptic cleaning products contribute to strengthening the resistance of bacteria to disinfectants (making them less effective) but also to antibiotics which have the effect of vocation to defend ourselves.

The WHO estimates that 10 million deaths worldwide will be attributed to antimicrobial resistance each year by 2050 . This situation is particularly problematic in hospital settings where pathogenic bacteria are involved in a wide range of nosocomial infections.

Killing disease-causing bacteria is no longer an option. Preventing and repelling them by creating healthy microflora in our interiors has therefore become the only ecological cleaning option that is effective in the long term!



Research on cleaning with probiotics carried out in 6 hospitals with 11,842 patients and 24,875 samples shows promising results: 54.8% fewer nosocomial infections and 100 times fewer antibiotic resistance genes thanks to cleaning with probiotics & of probiotics.

What added value for my hotel?

TOWARDS MORE PROFITABILITY AND SUSTAINABILITY



+ PROFITABLE

Since bad odors are eliminated quickly, rooms quarantined due to bad odors can be returned to service more quickly, increasing the hotel's profitability.

Additionally, because probiotic products are effective for an extended period of time, your cleaning staff frees up time to perform other tasks.

Textiles such as cushions, curtains and carpets need to be cleaned less frequently, increasing their longevity and reducing replacement costs.



+ SUSTAINABLE

Your hotel's CSR approach is reinforced by the use of green technology, 100% safe, 100% biodegradable and with a positive impact on your environmental ecosystem.

In addition, the use of probiotic-based products allows what no other technology can offer: recreating healthy microflora on surfaces, in the air and textiles, which is considerably beneficial for the health of your customers and your staff. And if you communicate well about the positive effects of your approach, there is no doubt that you will reap the benefits by further improving the satisfaction of your customers and the loyalty of your staff.



IN CONCLUSION

If your facility is faced with problems with foul odors, it is strongly recommended that you first take an interest in odor removers based on probiotics which, unlike the many existing solutions, offer multiple advantages in terms of their effectiveness, their ecological impact but also their beneficial action for all the people who breathe them.



**ALLAN
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*Contact
us today*



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