

biology for home and garden

BIOLOGY FOR HOUSEHOLD AND FOR GARDEN



recommends the use of unique quality biological products line **bioExpert**[®]

bioExpert
POLECA



Our products include NOT ONLY microorganisms but ALSO enzymes. They belong to preparations with **the highest number of beneficial bacteria*** and possess current Hygienic Certificates.

Why **bioExpert**[®] biology rather than chemistry?

1. The cancer incidence among women working at home increased by 57%! Scientists believe that the cause is too many chemicals, detergents in the household.
2. World Health Organization (WHO) indicates to protect the health of future generations. To do that it might be necessary to exclude “harsh” chemicals.
3. Chemicals acting quickly but only locally – organic deposits can move and build-up again elsewhere!
4. Only biological preparations are able to decompose organic substances (incl. fat, oils, grease) in natural, ecological way.
 - a. Chemical products can destroy bacteria necessary for the proper functioning of domestic sewage treatment plants
 - b. Only preparations containing bacteria ensure the proper drainage which is a base of domestic sewage treatment plants functioning.

* Comparing to other – similar - preparations

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BIOLOGICAL TABLETS

For cesspools, sewage systems and domestic sewage treatment plants



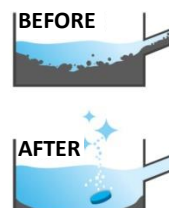
Unique product on the market with the highest number of beneficial bacteria*

Effect:

- Cleanses the septic tank
- Cleanses drain and sewage systems
- Prevents sludge accumulation
- Maintains optimal biological activity of domestic sewage treatment plants

Advantages:

- Rapid action with effervescent effect
- Highly efficient thanks to concentrated formulation
- Easy-to-apply individually packed tablets
- Eliminates indoor and outdoor stench
- Eliminates odor reflux problems
- Eliminates drain systems blockage



Application:

- Cesspools, sewage systems and
- Domestic sewage treatment plants
- Drainage

Dosage:

The volume of cesspool/septic tank in m ³	Frequency of use
1-3	1 tablet per month
4-6	1 tablet every 2 weeks
More than 6	1 tablet per week

Available packaging:

Pcs per box	Packaging type	Multipack	Piece per display	Display per box	Quantity in the transport box
12	Container	N/a	N/a	N/a	36
6	Container	N/a	N/a	N/a	36
4	Cardboard box	Yes	8	9	72
2	Cardboard box	Yes	10	9	90
1	Cardboard box	Yes	10	9	90

* Comparing to other – similar - preparations

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BIOLOGICAL DEGREASER

For unclogging sewage systems and efficient removal of fat deposits.

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Effect:

- Prevents repeated accumulation of fat
- efficiently decomposes fat deposits in sewage systems
- Liquefies fat deposits in the pipes, grease separators and domestic sewage treatment plants
- Maintains optimal biological activity of domestic sewage treatment plants

Advantages:

- Liquefies fat
- Efficiently decomposes fat deposits in pipes, siphons, separators
- Unclogs sewage systems
- Eliminates bad smells
- natural product, environmentally friendly
- easy to use – water soluble preparation



Application:

- Home sewage systems
- Domestic sewage treatment plants
- Drainpipe systems in canteens, bars, restaurants and hotels
- Meat and food plants
- Hypermarkets with catering department

Dosage:

Issue	Frequency of use
Intervention (fat embolism)	1 scoop per day during 7 days
Protection (light blockage)	1/2 scoop per day during 15 days
Maintenance (preventive)	1/2 scoop per week

Available packaging:

Unit per box	Packaging type	Transport box type	Quantity in the transport box
250 g of powder	Container	Cardboard box	36

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WC BIO-SHINE For cleaning toilets and urinals



Effect:

- Removes persistent limestone build-ups, mineral deposits and urine stains
- Prevents subsequent accumulation of residuals
- Decomposes organic compounds in toilets and sewage systems
- Maintains optimal biological activity of domestic sewage treatment plants
- Prevents clogging caused by fat, oils and greases build-ups.

Advantages:

- Clean and shining toilet without hassling
- Very efficient and at the same time gentle to the fitting
- Eliminates bad odors from sewage system
- Water-soluble sachet makes the product safe and easy to use
- Not harmful for natural bacterial flora
- With pleasant fragrance and blue color



Application:

- Home toilets
- Sewage systems
- Domestic sewage treatment plants
- Toilets in canteens, bars, restaurants and hotels

Dosage:



Apply one sachet into toilet bowl



After complete dissolution of sachet apply product inside toilet bowl with brush.
Leave for minimum 30 minutes



Clean the toilet bowl with the brush and flush

Available packaging:

Unit per box	Packaging type	Transport box type	Quantity in the transport box
4 sachets	Container	Cardboard box	36

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BIOLOGICAL ANTI-ODOR SACHETS

For waste bins

Especially efficient in humid environments.

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The unique odor-neutralizing preparation based on active bacteria.

Effect:

- They remove odors - not just mask them
- Selected microorganisms naturally and efficiently decompose the substances which cause unpleasant scents.
- In the same time aromatic oils give a pleasant scent.

Advantages:

- Easy-to-use pouch
- Long-lasting action of microorganisms
- Intensive natural fragrance
- Completely biodegradable
- Excellent product stability and long shelf life
- Contains only natural selected (not GMO), safe bacteria (no less than one billion per sachet) and aromatic oils
- Natural product respectful to the environment



Application:

- Waste containers
- Trash bins in all locations (toilet, kitchen, room, office)

Simply place a sachet on the bottom of the waste bin (inside the trash bag).

Available packaging:

Unit per box	Packaging type	Transport box type	Quantity in the transport box
4	Container	Cardboard box	36

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BIOLOGICAL ANTI-ODOR SACHETS

For interiors

Especially efficient in humid environments.

The unique odor-neutralizing preparation based on active bacteria.

Effect:

- They remove - not just mask the musty smell
- Selected microorganisms naturally and efficiently decompose the substances which cause unpleasant scents.
- In the same time aromatic oils give a pleasant scent.

Advantages:

- Ideal for musty rooms
- Easy-to-use pouch
- Long-lasting action of microorganisms
- Intensive natural fragrance
- Completely biodegradable
- Excellent product stability and long shelf life
- Contains only natural selected (not GMO), safe bacteria (no less than one billion per sachet) and aromatic oils
- Natural product respectful to the environment



Application:

- Anywhere where is a risk of encountering unpleasant smells – basements, storage rooms,
- Corridors, toilets, dressing rooms,
- Warehouses, factories,
- Hotels, pensions, summer houses,
- Caravans, yachts, vehicles,
- Attics and pantries

Available packaging:

Unit per box	Packaging type	Transport box type	Quantity in the transport box
4	Container	Cardboard box	36





ODOR STOP

Professional liquid concentrate

**For effective reduction of odor nuisance – undesirable smells gone away
WHEREVER THE PROBLEM WITH UNACCEPTABLE ODOR APPEARS**

(preparation cannot be use as an air freshener)

Effect:

- Removes odor immediately!
- Anti-odor compounds immediately eliminate unpleasant smells (containing sulphur and nitrogen) through their full neutralization by converting odorous molecules into free of any smell by-products.
- In the same time some of aromatic ingredients give a pleasant scent.
- Removes odors - not just mask them

Advantages:

- Safe to the people, animals and environment
- Highly efficient
- Universal anti-odor product
- Natural product respectful to the environment,
- Fully biodegradable
- Excellent mixing with water
- Non-flammable, non-explosive



Application:

- Waste storage facilities, rubbish cans, dumpsters etc. (applicable for waste containers washing)
- Sewage system, during sanitary works, cesspool/cesspit emptying,
- Places settled by animals (cats, animal breeding etc.)
- During processes where the problem of odor nuisance appears; for washing, cleaning containers for waste storage
- Fetid rooms/areas where odors are perceptible; utility rooms; for cleaning of neglected toilets
- For washing vehicles transporting animals

Available packaging:

Unit per box	Packaging type	Transport box type	Quantity in the transport box
500ml liquid	Bottle with sprayer	Cardboard box	24
100ml liquid	Bottle with sprayer	Cardboard box	30



ODOR NEUTRALIZER – DOG

ODOR NEUTRALIZER – CAT

FOR IMMEDIATELY ODOR NEUTRALIZATION ON FLOORS, TERRACES,
HOME AND GARDEN SURFACES.

(preparation cannot be use as an air freshener)



NEUTRALIZES ODORS FROM DOG/FELINE WASTES:

- URINE,
- EXCREMENT
- VOMITING

Effect:

Components especially selected by the bioExpert neutralize:

- unpleasant odor of urine (ammonia),
- gases generated by the decomposition of protein and carbohydrates
- composition of selected aromas repels insects and prevents recontamination of the surface by animals.

Application:

- Remove the source of the odor
- Spray on the surface that unpleasant smells.
- Test The Neutralizers for color fastness by first spraying it on a hidden area.



Unit per box	Packaging type	Transport box type	Quantity in the transport box
500ml liquid	Bottle with sprayer	Cardboard box	24

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KOMPOSTUS

Biological preparation for composting

The powerful combination of naturally occurring bacteria for the efficient biodegradation of plant material and other organic wastes.

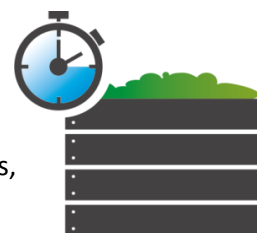


Effect:

- Shortens the composting time
- Macro- and micronutrients are included to support efficient biodegradation by the natural bacteria.
- Super-efficient - one 25 g scoop is enough for 0,5m³ of composting mass

Advantages:

- Regular use of Kompostus will enhance the composting process
- Allows to compost hardly biodegradable garden waste, e.g. leaves, straws, grass etc.
- Unifies the composting mass
- Fully biodegradable, natural product respectful to the environment
- safe to the people, animals and environment
- Efficiency guarantee – thanks to high concentration of especially selected strains of bacteria and enzymes



Application:

- Household composters and compost heaps
- Cottages and farms

Dosage:

For every 0,5 m³ of compost dissolve one scoop of preparation in approximately 2 liters of water. Then sprinkle the surface with the solution. Using for each new layer of composted material will provide a uniform concentration of microorganisms in a pile. In order to maintain adequate heap oxygenation it should be periodically turned over. The best results can be achieved with regular use of the product.

Available packaging:

Unit per box	Packaging type	Transport box type	Quantity in the transport box
250g of powder	Container	Cardboard box	36
150g of powder	Container	Cardboard box	36

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BluKlar

Biological, dry preparation of non-pathogenic bacteria, minerals & inorganic salts - for the treatment and maintenance of ponds.



Effect:

- Limits algae population growth
- Cleanses pond's bottom from organic compounds
- Improves water clarity

Advantages:

- Safe to the people, animals and environment
- Prevents the formation of organic pollutants in the pond
- Ensures a balanced development of the entire ecosystem
- No chemicals - fully biological preparation



Application:

- Ponds

Dosage:

The dosage depends on the volume of the water reservoir and the type of pollutions.

500 g of preparation is sufficient for the month of application to the pond with a volume of 20 000 liters.

Reservoir volume (liters)	Starting dose	Maintenance dose March – September
up to 2 000	1 scoop per day, during 3 days	1 scoop per every two weeks
2 000 – 5 000	2 scoops per day, during 3 days	1 scoop per week
5 000 – 10 000	4 scoops per day, during 5 days	2 scoops per week
10 000 - 20 000	6 scoops per day, during 5 days	3 scoops per week

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In order to an effective application of the preparation BluKlar® the following rules should be observed:

1. Before using the product the pond water surface should be mechanically cleaned form any organic layer.
2. Pond should be properly aerated, which can provide proper flora or the use of mechanical aeration pump.
3. UV source should be turned off 48 hours before application of preparation

Available packaging:

Unit per box	Packaging type	Transport box type	Quantity in the transport box
500 g of powder	Container	Cardboard box	24
250 g od powder	Container	Cardboard box	36



www.bioexpert.pl

bioArcus sp. z o.o.

ul. Białostocka 22/9, 03-741 Warszawa, tel. +48 22 654 05 75, e-mail: bioexpert@bioarcus.pl

Contact person: Margaret Kobus, Export Specialist

Phone: +48 22 654-05-75, Mob.: +48 502 178 495, E-mail: Malgorzata.Kobus@bioarcus.pl

