

Solution overview

“Bad smell, pollution, presence of algae and insects are common signs of poorly treated wastewater and water. NeoBio® eliminates these nuisances fast and in an environment-friendly way.”

What is NeoBio®?

A high-tech cocktail of multiple carefully selected natural bacteria that live for a single purpose: digesting all forms of organic waste. They are efficient in aerobic and anaerobic environments alike.

Where can it help?

NeoBio® Septic / Septic+:

In septic tanks and wastewater treatment systems.

NeoBio® All-Water / All-Water+: fish ponds, marinas, lagoons, lakes, canals, all-water tanks.

NeoBio® Latrines / Oil&Grease: latrines, grease traps, livestock farms, palm oil plants, food processing plants.

How much to apply?

One 25 gram water-soluble sachet for each cubic meter of tank. Large scale applications involve spreading raw powder directly into / onto the surface to be treated.

How often should it be applied?

Starter period: apply daily for up to 10 days.

Maintenance period: once every two weeks on average will ensure optimum efficiency following starter period.

Where to drop the sachets?

Drop the correct dosage directly into the area to be treated, spreading it evenly when possible.

Dropping them into influents is also recommended to prevent pipes from clogging and for easier application.

Is any protection needed for manipulation?

The bacteria are harmless to people, animals, fish and plants. However, for hygiene reasons it is recommended to use gloves while manipulating the sachets.

Main benefits

Odor disappears in 4 hours.

Bad bacteria are killed.

Wastewater is rendered non-pollutant.

Pond water is made clear and remains algae-free.

Additional benefits

Wastewater pipes will not clog.

Insects are not attracted anymore.

Sludge volume decreases by 40%, saves maintenance costs.

Sludge remains liquid, making maintenance easier.

Is it compatible with existing treatment methods?

The bacteria can be killed by chemicals such as chlorine. Make sure chemicals are used no longer once treatment with NeoBio® has begun. Ozone generators and other smell removers aren't needed anymore and can be switched off.

Packaging

Business to Business: in cartons of 800 sachets.

Retail:

- Boxes of 20 sachets: NeoBio® Septic and All-Water

- Boxes of 10 sachets: NeoBio® Septic+ and All-Water+, a concentrated formula to be used daily during the first 10 days of a new treatment and to solve acute problems.

Bulk example: NeoBio® Septic and All-Water

- Boxes of 20 sachets each.

- Cartons of 16 boxes, 320 sachets

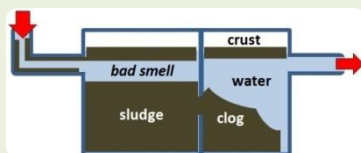
- 20 foot dry containers of 1,050 cartons, 16,800 boxes, 336,000 sachets.

Pricing

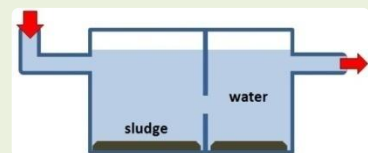
Contact us for pricing information.

**How
problems
are
solved:**

Untreated septic tanks, latrines, grease traps and ponds create nuisances...



... that NeoBio® eliminates in an environment-friendly way.



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Application examples:



Homes, hotels & resorts, condominiums, hospitals, shopping malls, schools, ...

"No more bad smell in bathrooms and public areas, wastewater complies with regulation standards."



Pit latrines, individual and collective

"Odorless latrines, bacteria-free, insect-free and with lower maintenance costs provide improved sanitation for all."



Grease tanks and grease traps.

"Bad smell is eliminated, pipes do not clog, maintenance costs are reduced."



Wastewater treatment plants.

"Treatment capacity is improved, greenhouse gases emissions are reduced, biogas output for energy production is enhanced."



Livestock farms.

"Surrounding communities stop complaining about bad smell, bad bacteria are eliminated, groundwater pollution risk disappears."



Fish ponds, lakes, marinas, lagoons, canals, ...

"Water stays clear, algae-free, bad bacteria free, oxygen levels go back to normal."



Solves most pressing water/wastewater issues

Solution overview

Main references:



Latest success stories:

Thailand, Bangkok: serviced apartment's wastewater depolluted, costs cut.

Parameters	Unit	Method	Standard	Before NeoBio, March 2009		With NeoBio, April 2009		With NeoBio, June 2009	
				Input	Output	Input	Output	Input	Output
pH		Electrometric	5 - 9	7.42	7.26	7.10	6.56	7.51	7.29
BOD	mg/L	Membrane Electrode	<= 30	104	16	44	10	46	15
Suspended Solids	mg/L	In-house method: TE-01	<= 40	60	29	52	24	36	6
Dissolved Solids	mg/L	In-house method: TE-02	<= 500	292	284	312	344	328	324
Grease & Oil	mg/L	Soxhlet Extraction	<= 20	14.5	< 0.2	9.5	< 0.2	5	< 0.2
Total Kjeldahl Nitrogen	mg/L as N	Kjeldahl	<= 35	31.84	15.22	13.82	2.62	33.42	11.02
Sulfide	mg/L as H ₂ S	Iodometric	<= 1	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Faecal Coliform Bacteria	MPN/100ml	MPN			24 x 10 ³		12 x 10 ²		54 x 10 ²
Residual Chlorine	mg/L as Cl ₂	DPD Colorimetric			< 0.1			< 0.1	
Sludge Volume	Pickup truck	Mechanical extraction			1.5		1		<1

Data source: mandatory monthly wastewater quality analysis by BMA certified third party laboratory.

Philippines, Manila: algae growth prevented in shopping mall's pond.



May 25th, 2009: before treatment



May 26th, 2009: with NeoBio® All-Water



Solves most pressing water/wastewater issues

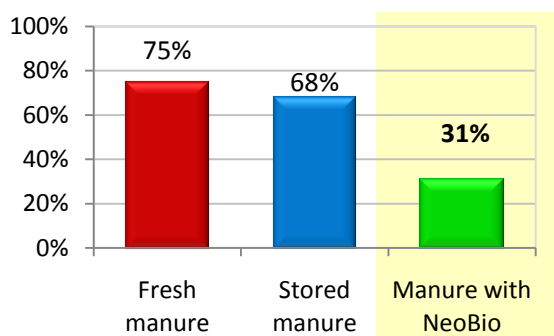
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Following data illustrates real-life results obtained with NeoBio in livestock farms.

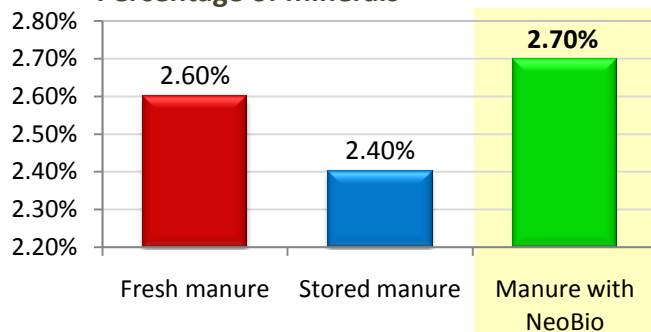
	Type	Fresh manure	Stored manure
Pollutants	Ammonia	-141%	-119%
	Nitrates	-4%	-308%
Gases	Soluble amino nitrogen	-226%	
	Ammoniacal nitrogen	-220%	
	Insoluble protein nitrogen	-100%	

“Pollution is stopped, greenhouse gases are reduced, biogas output for energy production is improved.”

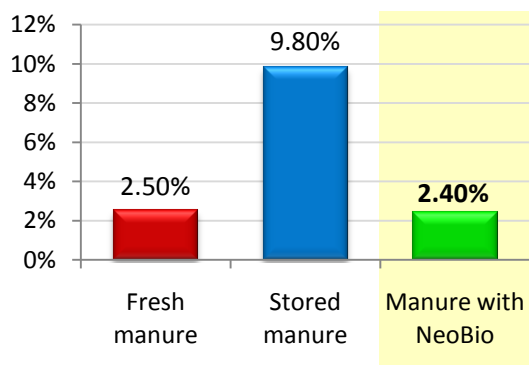
% of ammonia in total nitrogen



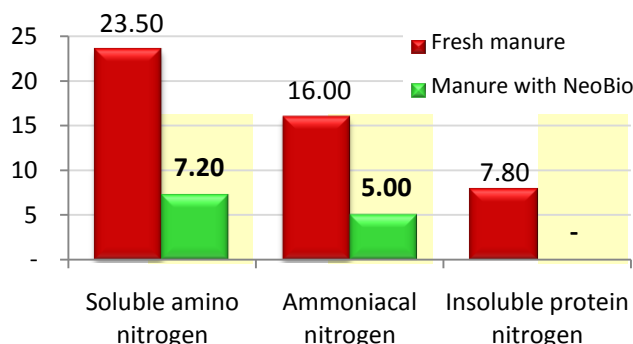
Percentage of minerals



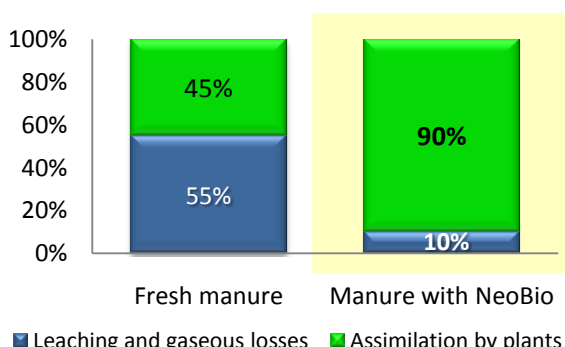
Percentage of nitrates



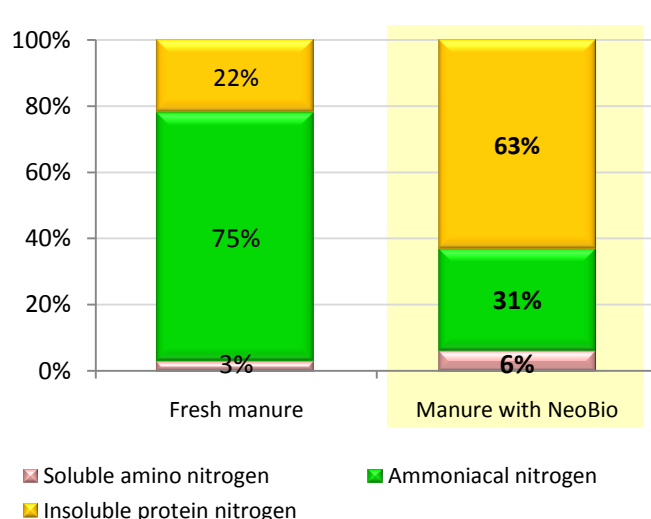
Gases formed by manure, in ppm



Nitrogen usage in %



Distribution of forms of nitrogen in %



Data sources: Agronomical Institute Paris Grignon (France), Chambers of Agriculture of Brittany (France)