

Livestock Quench

Mineral Solution for Livestock Sector



LONTRA
Keep It Pure



GEN21 Mineral Solution Inc
A COMPANY OF GEN21 GROUP

What does “LONTRA” mean?

LONTRA is the Italian word for 'otter.' Otters can only live in pristine waters. Our mission is to gift humanity with clear water and an environment where even otters can thrive through our unique mineral extraction and stabilization technology.

EXCLUSIVE TECHNOLOGY

- We possess the world’s leading mineral extraction and synthesis technology.
- Our proprietary method ensures that our products cannot be replicated, maintaining their exclusivity and effectiveness.
- Our natural mineral products enhance plant and animal growth and immunity without side effects, outperforming traditional fertilizers and pesticides.



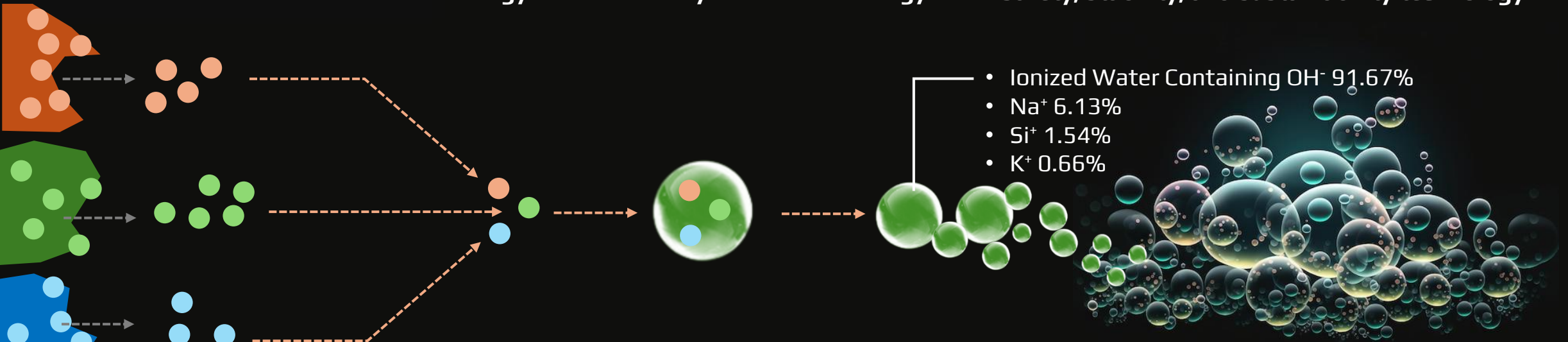
Advanced technical expertise

We've innovated mineral extraction and synthesis techniques to promote wellness and growth in households, agriculture, livestock, and industrial cleaning, free from harmful chemicals. Additionally, our pH-balancing additives regulate acidity for optimal health and vitality.

• Natural Mineral Extraction Technology

• Mineral Synthesis Technology

• Safety, stability, and sustainability technology



*The above composition is an example of the blending ratio for one of the products in mineral solutions, and each product has a different blending ratio.



SOLUTION



LONTRA

Transforming Lives, Together



Household



Agriculture



Livestock



Industrial cleaning



Hospitality cleaning



Healthcare

Livestock & related issues

A large indoor poultry farm with thousands of chickens. A person in a white protective suit is visible on the left side of the image. The farm has rows of red and white feeders and waterers. The background shows the structure of the barn with wooden posts and a large hanging light fixture.

Livestock diseases:

- Diseases caused by air pollution
- Respiratory problems due to barn conditions
- Increased mortality rates and antibiotic usage due to weakened immunity.

Environmental destruction:

- Foul odors and harmful gases from livestock waste, leading to soil and water pollution from effluents

Livestock Quench is the solution to address environmental issues in farms and increase revenue

LONTRA Mineral Livestock Quench not only sterilizes and deodorizes barns but also, when used as drinking water for animals, promotes metabolism, increases immune cells, and helps reduce mortality rates. Additionally, it enhances meat quality and upgrades egg size.



Powerful, immediate results and reasonable pricing

- Upgradation in Egg size
- Natural livestock growth promoter
- Improved digestion and enhanced nutrient absorption in livestock
- Improved meat quality
- Reduced antibiotic usage frequency due to strengthened immunity



Barn cleaning solution

- Removal of bacterial odors in barns
- Ammonia odor removal
- Sterilization of harmful bacteria
- Maintaining a clean breeding environment.



Usage Instructions:

- Highly concentrated natural mineral solution
- Dilute 50 times for initial use, then dilute 100 times for regular application
- Begin with a weekly application and gradually increase to twice weekly for best results in odor control and environmental improvement.

Size:

1 Gallon(4L) / 1.25ton IBC bulk





Drinking water additive for livestock

Suitable for all animals including cattle, pigs, chickens, camels, goats and ducks.

Mineral Livestock Quench added to drinking water offers comprehensive health benefits.

- Enhanced nutrient absorption and digestion efficiency
- Promotion of metabolism and increase in immune response
- Improvement in meat quality and enhancement of taste
- Reduction in antibiotic usage due to antibacterial action
- Thickening of eggshells and decrease in cracked egg count (by approximately 30%)
- Increase in the quantity of large and extra-large eggs compared to regular eggs



Usage Instructions:

- Highly concentrated natural mineral solution
- Initially dilute 3,000 times in water for feeding, and gradually increase to 5,000 times over time

Size:

5 Gallon(19L) / 1.25ton IBC bulk

Proven Effects

Providing LONTRA Natural Mineral Livestock Quench as drinking water for livestock enhances nutrient absorption and digestion efficiency, boosts immunity, and improves meat quality. This enhances profitability in the livestock industry.

Livestock	MHC-Class Expressing cells		CD2T lymphocytes		CD4T lymphocytes		CD8T lymphocytes	
	Before	After	Before	After	Before	After	Before	After
Cow	48.80%	53.60%	36.70%	39.14%	6.40%	8.90%		
Pig	13.58%	21.00%	56.67%	58.32%	16.51%	27.85%		
Chicken	51.38%	73.49%			17.25%	33.28%	19.00%	22.68%

- Improved nutrient absorption and digestion → Reduced ammonia production and odor.
- Enhanced metabolism and immune cell function → Superior immune system support.
- Improved meat quality and reduced strong meat odors → Enhanced taste and flavor.
- Antibacterial, antiviral, detoxifying effects, and immune enhancement → Reduced antibiotic use.

Application cases

LONTRA AGRIVET VITALIZER FOR LIVESTOCK

Experimental field	Pig farm	Poultry farm
Company Name	Yangsan farm (Representative: Yoon Gichan)	Younggin farm (Representative: Kim Jinyong)
Livestock type	Contracted fattening pigs, 1,200 heads	Layer chickens, 20,000 heads
Test period	2 months	3 months
Application method	<ul style="list-style-type: none"> Supply of mineral drinking water Spraying for odor control 	<ul style="list-style-type: none"> Supply of mineral drinking water Spraying for odor control
Result	<ul style="list-style-type: none"> Internal ammonia gas reduced by 93% in the barn Significant reduction in pig manure odor Over 50% decrease in mortality rate due to diseases Significant improvement in pig growth due to improved barn environment. 	<ul style="list-style-type: none"> 50% reduction in odor caused by livestock manure 30% decrease in broken(cracked) eggs. Production ratio of XL and specialty eggs doubled



Test results for Livestock

Test	Accredited Testing Institute	Result
Sterilization of foot-and-mouth disease bacteria	British Bright Institute	At pH 12.5, 100% eradication of E. coli.
Pesticide decomposition	Korea Testing & Research Institute	Decomposition ability to remove approximately 80% of the top 10 pesticides with high detection frequency
Cluster measurement (water molecule size)	Korea Advanced Institute of Science and Technology	When 3 drops are added to 100ml of water, the frequency measures 52.06Hz
Testing the role of surfactants	Japan Life Water Research Institute	Compared to regular tap water, the measurement is 2.6 times higher when 3 drops are added to 100ml of water.
Deodorization test	Korea Testing & Research Institute of Chemical Technology	Ammonia odor reduced by 81% after 10 minutes
E. coli sterilization	Korea Testing & Research Institute of Chemical Technology	Initial count: 6.3×10^5 CFU/ml → After 1 minute: 40 CFU/ml (reduced by over 99.9%)

Test results for Livestock

Accredited institutions have confirmed the powerful effectiveness and safety

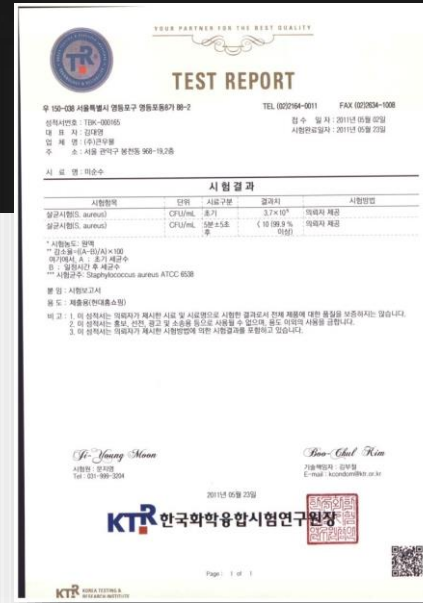
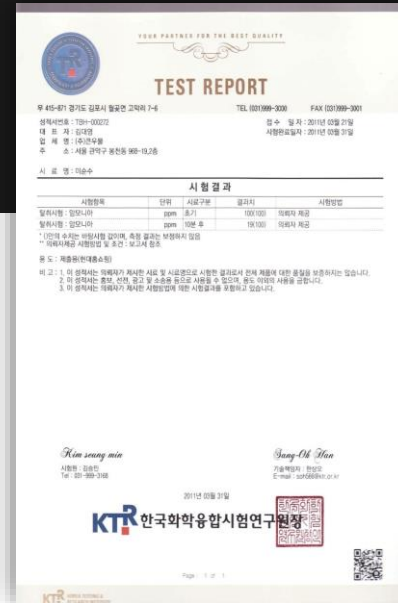
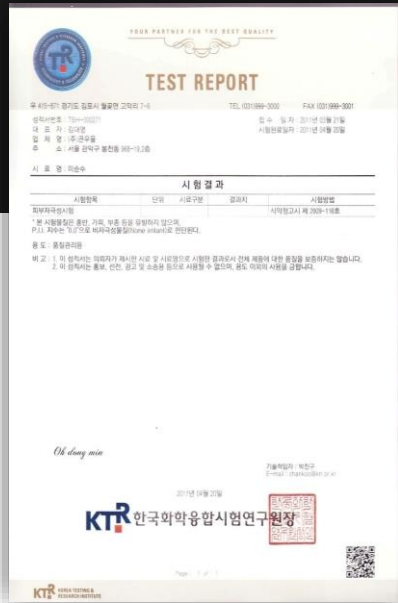
Skin irritation test

Ammonia deodorization

E. coli sterilization

Salmonella sterilization

Top 10 harmful substances



- Test subject: Rabbit
- Results: No occurrence of erythema, alopecia, or edema.
- P.I.I. Index: 0.0 (Determined as non-irritating substance)

Ammonia: 81% removed after 10 minutes (from 100 to 19)

E. coli: 99.9% eradicated after 1 minute

Salmonella: 99.9% eradicated after 5 minutes

All 10 indicators of water pollution were undetectable



 **GEN21 MINERAL SOLUTION Inc**

4F, Technology Innovation Center, 1036, Jungang-ro,
Ilсандong-gu, Goyang-si, Gyeonggi-do, Republic of Korea

Technical inquires: annie.kim@gen21group.com

Sales inquires: dr.eswar@gen21group.com

Business inquires: aiden.choi@gen21group.com



<http://www.gen21mineralsolution.com>