

# EQUUSIR

THE BEST FOR YOUR HORSE

# NATURAL HORSE CARE

EQUUSIR BIONIC-CARE



**EQUUSIR** 100%  
**BIONIC** NATURAL  
HORSE CARE

# DISINFECT REGENERATE CARE

HIGHLY EFFECTIVE AND  
100% WITHOUT SIDE EFFECTS

# SIMPLY SPRAY OR ADD TO WATER

EQUUSIR BIONIC-CARE products use electrolytically polarised mountain spring water and thanks to the water quality they are able to penetrate down to the cellular level, which results from small molecular clusters which in turn destroy harmful bacteria from the inside out and positively affects the acid-base balance of the cell.

The BIONIC products are manufactured using a highly specialised electrolysis process. Not only do they have an antibacterial and fungicidal effect, but they are also highly oxidising and have stable redox\* and pH values.

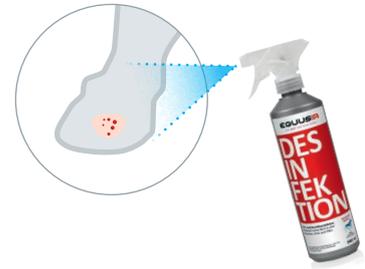
## Cellularity assures effectiveness

All metabolic processes are closely related to water. In addition to a solvent, water is used as a carrier and cleaning agent, thus ensuring optimum cell connectivity. It carries nutrients to the cells and contaminants as well as degradation by-products from the cells and the connective tissue. EQUUSIR BIONIC products use this fundamental property to ensure the effectiveness of their products.

## Metabolic Support

Inside the hoof or when small injuries are present, the immune system is confronted with bacteria. BIONIC Disinfection provides an immediately-effective protection against bacteria by breaching the cell wall and destroying any bacteria from the inside out.

During physical stress (for example, high performance sports) the saline concentration in the body increases. BIONIC Regeneration acts to neutralise the toxins in the body. Existing vital substances are carried directly into the cells and toxins are removed from the cells.



Electrolytes promote regeneration and durability of the cells.



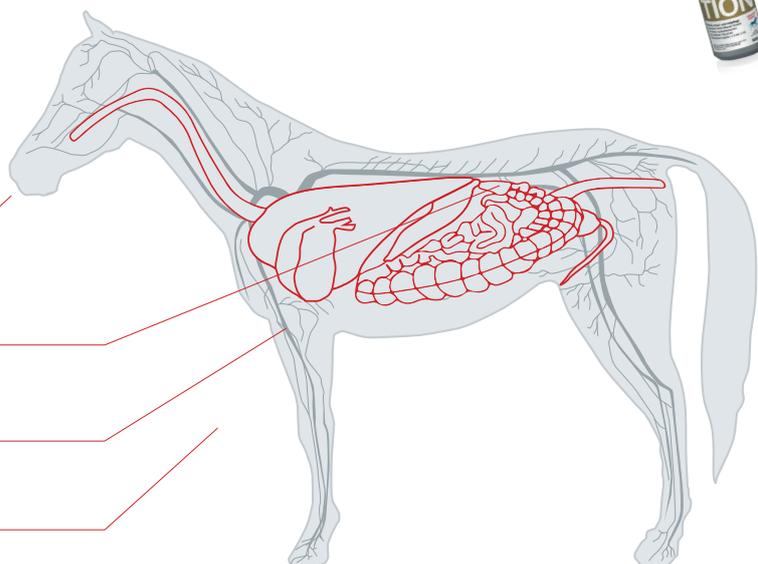
Organic and inorganic toxins are discharged.



The cells receive a better supply of nutrients.



The metabolism is regulated.



\*Redox: This value provides information about the total amount of all substances dissolved in the water and thus defines the purity of the water.

# BIONIC DISINFECTION

## Characteristics

EQUUSIR BIONIC Disinfection helps with external and internal infections of fungi, viruses or bacteria. It can be used as a disinfectant for wounds, bacterial or fungus-related skin diseases, thrush, mud fever, but also to counteract microbial loads.



### ELIMINATES 99.9 % OF ALL VIRUSES & BACTERIA

Destroys viruses, bacteria, fungi & germs.  
Bactericide, limited viricidal, fungicidal.



### PH-NEUTRAL

Does not change the pH value of the skin.  
PH value between 6.5 and 7.5



### HIGHLY SAFE ON SKIN

Does not damage or irritate the skin.  
Aldehyde-free, non-flammable and hypoallergenic.  
Does not irritate the eyes or mucous membranes.



### SHORT TREATMENT

Surface is sterile 30 seconds after application.  
Active substance: sodium hypochlorite.



### LEAVES NO RESIDUE

Does not leave traces on skin or coat.  
DGHM / VAH and ADMR-compliant (dope-free)  
and 100% biodegradable.



### PROVEN QUALITY

According to test report No. 9426-16

Hydrogen hydronium ion concentration	6.94	pH-Value
Ammonium	<0.05	mg/l NH <sub>4</sub> <sup>+</sup>
Calcium	3.58	mg/l Ca
Chloride	4,550	mg/l Cl <sup>-</sup>
Iron	<0.01	mg/l Fe
Potassium	3.49	mg/l K
Magnesium	<1.0	mg/l Mg
Manganese	<0.005	mg/l Mn
Sodium	4.55	mg/l Na
Nitrate	4.7	mg/l NO <sub>3</sub> <sup>-</sup>
Nitrite	0.58	mg/l NO <sub>2</sub> <sup>-</sup>
Sulfate	55.2	mg/l (SO <sub>4</sub> ) <sub>2</sub> <sup>-</sup>

*In addition to protecting against bacteria, the EQUUSIR BIONIC Disinfection prevents the spread of viruses. Any connectivity between viruses and host cells is permanently blocked.*



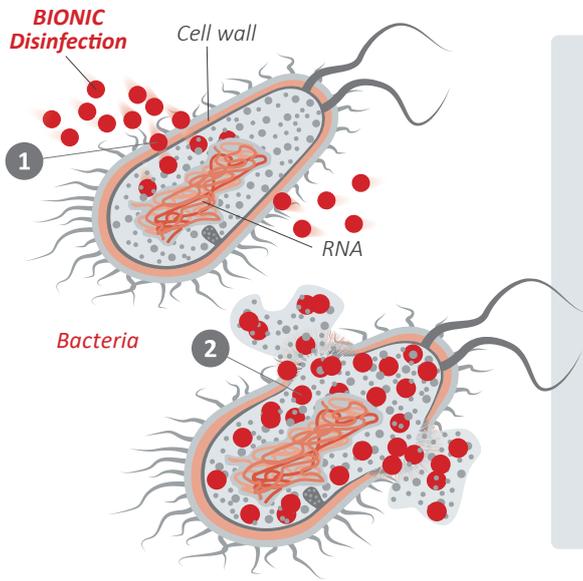
### EFFECTIVE AGAINST

- Enterococcus, Staphylococcus, Enterobacteriaceae, Pseudomonas.
- Mycobacteria (including Bovine Tuberculosis (TB)).
- Fungi and spores (including Aspergillus & Candida / Bacillus Cereus spores).
- Viruses (viruses with or without an envelope, including Herpes & Parvovirus).

# Destroys harmful cells effectively

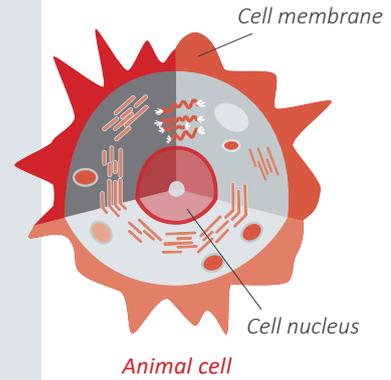
The key to the disinfecting effect is cell permeability:

- 1 EQUUSIR BIONIC Disinfection penetrates the cell wall and changes the osmotic pressure within the harmful cell.
- 2 Bacteria and viruses cannot resist the higher pressure and are „blown up“.



**NO CELL DAMAGE FOR HIGHER ORGANISMS**

The osmosis is an essential metabolic process and serves, among other things, to regulate the water balance of living beings and their cells. While the cell wall of bacteria cannot withstand the high pressure, animal cells are enclosed in a cell membrane which is significantly more stable.



## Application Examples

All applications must be carried out under the supervision of a competent veterinarian.



### BACTERIAL LOAD IN THE HOOF

Bacterial load in the hoof region impacts nearly every horse, since anaerobic bacteria develop and multiply in every hoof. Sole, frog and fetlock benefit from a preventive and complementary therapeutic use of the EQUUSIR BIONIC Disinfection.



### SMALL INJURIES

The EQUUSIR BIONIC Disinfection is recommended for treatment support of small injuries. The spread of bacteria is inhibited, thus enabling an improved therapeutic process. After a scab forms, BIONIC Regeneration is used to further aid the healing process.



### DETOX

Stomach and thrombosis problems are often caused by fungi, viruses, bacteria or parasites which often lead to diarrhoea. The symptom-specific treatment via the EQUUSIR products is administrated orally.



### INHALATION

In the case of fungi, viruses and bacteria in the respiratory tract, the EQUUSIR BIONIC Disinfection should be administered via inhalation. The BIONIC products must be mixed with distilled water in a ratio of 1:1.



### DISINFECTION OF WATER

The EQUUSIR BIONIC Disinfection is effective against any microbial load that could potentially cause diarrhoea or damage to the immune system. In that case, the BIONIC products are added to the drinking water.

# BIONIC REGENERATION

## Characteristics

EQUUSIR BIONIC Regeneration is a basic, cell-permeable care product for the skin, coat and mane. It can be used for injuries, skin irritations, for the care of the coat following fungal infections, mud-fever or insect bites. BIONIC Regeneration soothes the tissue without pharmaceutically irritating the skin.



### HIGH SKIN COMPATIBILITY

Does not damage or irritate the skin.  
Aldehyde-free, non-flammable, hypoallergenic.  
Does not irritate the eyes or mucus membranes.



### NEW SKIN CELL GROWTH

Supports skin cell regeneration.



### SHORT ACTING TIME

Reacts quickly and effectively.



### LEAVES NO RESIDUAL EFFECTS

Does not leave traces on skin or coat.  
DGHM / VAH and ADMR-compliant (dope-free)  
and 100% biodegradable.

## PROVEN QUALITY

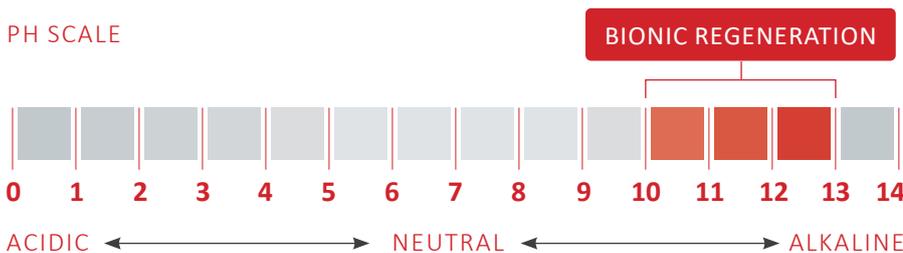
According to test report No. Pb0961-14

Hydrogen hydronium ion concentration	12.3	pH-Value
Ammonium	<0.050	mg/l NH <sub>4</sub> <sup>+</sup>
Calcium	3.61	mg/l Ca
Chloride	9,910	mg/l Cl <sup>-</sup>
Iron	0.66	mg/l Fe
Potassium	41	mg/l K
Magnesium	< 1.0	mg/l Mg
Manganese	0.02	mg/l Mn
Sodium	7,160	mg/l Na
Nitrate	6.34	mg/l NO <sub>3</sub> <sup>-</sup>
Nitrite	<0.015	mg/l NO <sub>2</sub> <sup>-</sup>
Sulphate	3.71	mg/l (SO <sub>4</sub> ) <sub>2</sub> <sup>-</sup>
Total hardness	5.26	mg/l Ca
Total hardness	0.73	°dH

## Fighting acids with bases

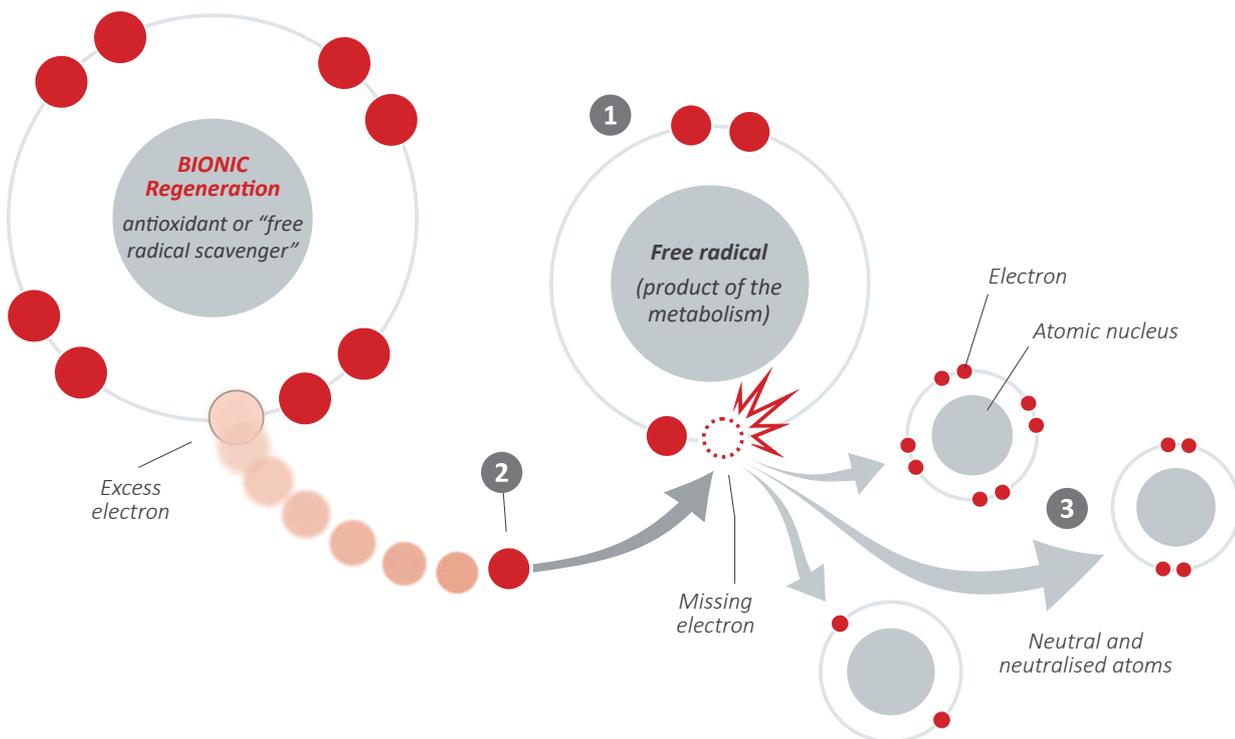
The EQUUSIR BIONIC Regeneration has a pH value of 10–13 which is predominantly alkaline and therefore neutralises excess acids.

PH SCALE



## NEUTRALISING FREE RADICALS

1 Free radicals occur in the metabolic processes. They are molecules with unpaired electrons. EQUUSIR BIONIC Regeneration (antioxidant or “free radical scavenger”) protects the cell from damage, 2 by providing excess electrons to the free radicals and 3 thus neutralising the harmful effect.



## Application Examples

All applications must be carried out under the supervision of a competent veterinarian.



### HOOF CARE & REGENERATION

The EQUUSIR BIONIC Regeneration soothes the tissue after mud fever without pharmaceutically irritating the underlining tissues. Hoofs with horn splits benefit from a regular humidification process as it prevents the penetration of bacteria and increases the resistance of the hoof.



### CARE FOR SKIN AND COAT

With regard to the skin, the EQUUSIR BIONIC Regeneration supports the restoration of the skin surface following scabbing or any inflammation. The skin is regenerated, the coat grows faster and becomes shinier.



### DETOX

For stomach and thrombosis caused by hyperacidity or allergies, the EQUUSIR BIONIC Regeneration acts as a natural acid-pH balancing agent and therefore reduces acidity. The application is carried out via an oral syringe.

# DAILY APPLICATION

## The BIONIC spray bottle always at hand.

With the convenient spray bottle, the BIONIC-CARE products can quite easily be applied to the sole, the frog and the fetlock, as well as directly to the coat and mane.

*All applications must be carried out under the supervision of a competent veterinarian.*



### CLASSIFIED AS SAFE

EQUUSIR BIONIC meets all legal parameters of the Drinking Water Ordinance (TWVO, EN 901) and the drinking water disinfection according to DIN EN901. It is free of side effects and meets the anti-doping guidelines of the FEI.



### DISINFECTING OPEN WOUNDS

The BIONIC Disinfection can be applied on open wounds. The disinfectant effect occurs within 30 seconds.



### CLEANSING INFECTED AREAS

BIONIC Disinfection cleans and disinfects all at once.



### CARE FOR SKIN, COAT AND MANE

The BIONIC Regeneration works everywhere on skin, coat and mane, where the formation of new skin or hair cells is required: scabbed scars, bald spots or irritated skin spots.

## Additional application possibilities



### ORAL SYRINGE

Pour the desired quantity of the BIONIC product into a sterile glass and then fill the oral syringe with the product.



### INHALATION

Mix the desired quantity of BIONIC product using a 1:1 ratio with distilled water.\*



### DISINFECTION OF DRINKING WATER

Recommended dosage: 3ml per litre of drinking water. For example: 30ml will be enough for a 10 litre bucket.



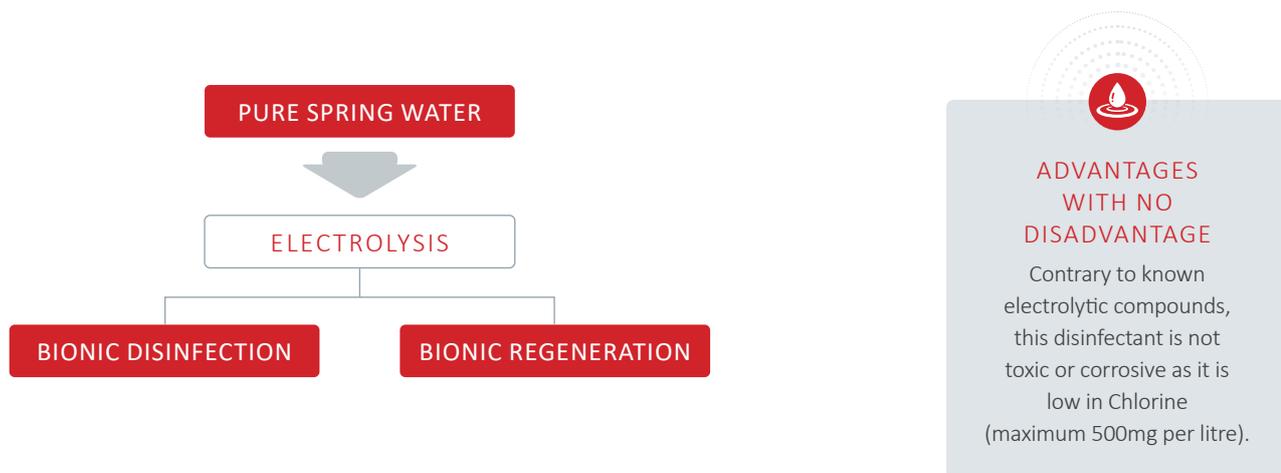
For special applications please inquire about our spa and care sets. [www.equusir.com](http://www.equusir.com)

\* For example 20ml BIONIC with 20ml distilled water.

## The principle of electrolysis

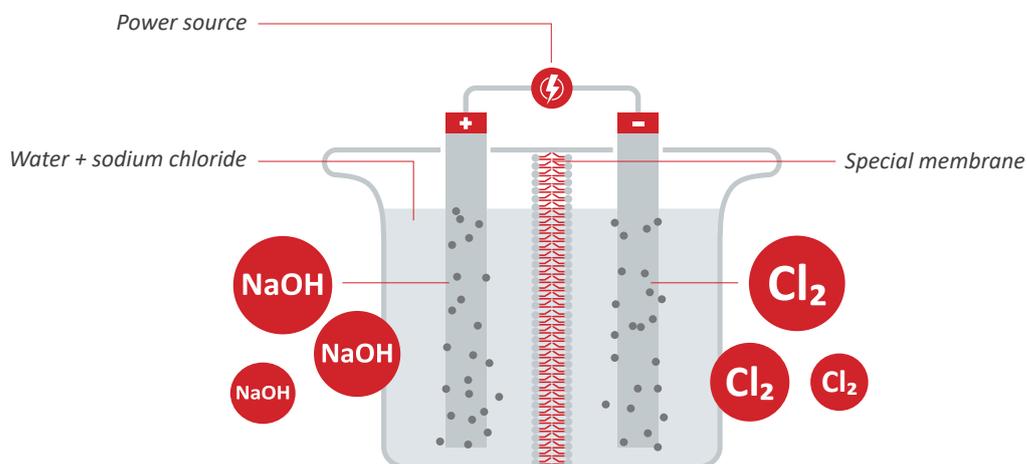
Water, salt and electricity: these are the raw materials of the EQUUSIR BIONIC-CARE products. High quality standards ensure production accuracy. The EQUUSIR BIONIC-CARE products are produced with energy-saving efficiency, free of chemicals and use spring water.

*The result of the precisely-regulated electrolysis are two water types that are defined specifically for their composition and action:*



## Quality through attention to detail

The EQUUSIR BIONIC-CARE products are established in a specially developed multi-chamber system. The strength of the electric current and the flow rate are monitored constantly to ensure high product quality at all times. The chemical reaction between water and salt produces chlorine ( $\text{Cl}_2$ ) and sodium hydroxide ( $\text{NaOH}$ ), which do not mix, thanks to the special membranes in the multi-chamber system. Therefore, a disinfectant that is neither toxic nor corrosive and that contains a very small proportion of chlorine-containing acids is produced.



*The key to optimal cell activity  
is an acid-base balance: The EQUUSIR  
BIONIC products reach the cells directly,  
via osmotic efficiency.*

Founder, EQUUSIR Research & Development  
**Gerold Reinwald**



## THE **BEST** FOR YOUR HORSE

Whether in therapy or in training, BIONIC, BIOS and BEST-BOX support the horse and rider to manage and reach an improved performance.



**EQUUSIR** BIO ENERGETIC  
SCAN AND  
**BEST BOX** THERAPY

### IDENTIFYING AND IMPROVING LIMITATIONS

The effect on health and ability to perform is created through a combination of the bioenergetic scans with the application of coloured and infrared light.

After precise measurement of the current energy level, the **EQUUSIR BEST-BOX** then delivers high-quality energy to individual body-areas.



**EQUUSIR** BIO  
**BIOS** STIMULATION  
SYSTEM

### TARGET-SPECIFIC PERFORMANCE CONTROL

Whether increasing the concentration before the start of a show, for relaxation after a transport or for activation prior to daily training: Vital functions such as blood pressure, muscle tone and breathing determine whether the body of a horse is ready to perform or is able to regenerate. The natural control is exerted via the vegetative nerve system, target-specifically influenced by the impulses of the **EQUUSIR BIOS-BLANKET**.



**EQUUSIR** BIO  
**BIOS** STIMULATION  
SYSTEM

### TARGET-SPECIFIC CONTROL OF THE RIDER'S STATE OF ENERGY

Human concentration and performance capability are also controlled autonomously through the vegetative nerve system. In order to bring the vital function and the hormone system into the correct performance state between tension and relaxation, the **EQUUSIR BIOS-VEST** delivers the correct electromagnetic pulses.

## Simply order online

The world of EQUUSIR is just a click away. Many field reports and detailed studies will give you a deeper insight into our work for the horse and its staff.

Find out more and get to know the effect first hand. Many of the EQUUSIR products are available through our website.

[www.equusir.com](http://www.equusir.com)







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**EQUUSIR GMBH**

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