



Bestandsspezifische Impfstoffe und Autovakzinen

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## AUTOGENOUS VACCINES MADE IN AUSTRIA

### EXPERTISE FOR VETS BY VETS

In February 2011 a new company was founded by veterinarians: BS-Immun is the first licenced manufacturer of autogenous vaccines in Austria.

### PRODUCTION

BS-Immun is not a laboratory for diagnostic analyses, it is a highly specialised company for the production of autogenous vaccines (farm-specific vaccines). We cooperate with laboratories by obtaining isolates which are the basic material for the production of the vaccines.

Bacteria and toxins will be inactivated and adequate adjuvants are added. Each batch is tested for sterility.

Autogenous vaccines are made for livestock as well as for individual animals.

Time of production: about three weeks

Pro	Contra
individual treatment by tailor-made vaccines	no testing of effectiveness
the compounds can be varied if the spectrum of germs alters	time of production is about three weeks
no withdrawal period	shelf life is defined by six months
less application of antibiotics or medical treatment	isolation of pathogens is necessary

### INDICATION

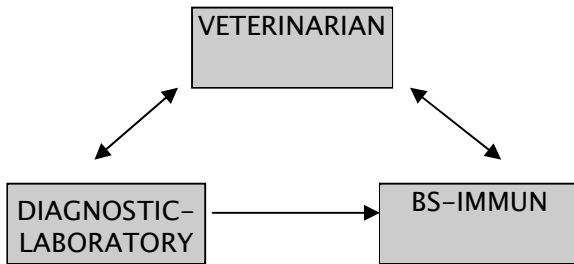
The focus is on vaccines against bacterial infections of the gut, the respiratory tract, mastitis and skin infections as well as papilloma vaccines.

autogenous vaccines for livestock (farm-specific) versus	species
<i>C. perfringens</i> , <i>E. coli</i> , <i>Pasteurella</i> sp., <i>Bordetella</i> sp.	pigs, poultry, ruminants
<i>Mannheimia (Pasteurella) haemolytica</i>	ruminants
mastitis - like <i>E. coli</i> , <i>Staphylococcus</i> sp., <i>Streptococcus</i> sp., coliforme Keime, <i>Pasteurella</i> sp.	ruminants
<i>Actinobacillus pleuropneumoniae</i> , <i>Haemophilus parasuis</i> , <i>Streptococcus suis</i> , <i>Staphylococcus hyicus</i>	pigs
<i>Corynebacterium pseudotuberculosis</i>	ruminants
<i>Erysipelothrix rhusiopathiae</i> , <i>Staphylococcus</i> sp.	poultry, pigs
<i>Ornithobacterium rhinotracheale</i>	poultry
papillomatosis	ruminants
trichophytia	all species

autogenous vaccines for individuals versus	species
staphylococcal pyoderma	small animals
chronic diarrhoea by haemolytic <i>E. coli</i> , <i>C. perfringens</i>	small animals, horses
chronic-recurrent infections (e.g. by <i>Pseudomonas aeruginosa</i> )	all species
papillomatosis	small animals, horses
equine sarkoid	horses

pond-specific vaccines versus	species
<i>Aeromonas</i> sp., <i>Yersinia ruckeri</i> , <i>Shewanella putrefaciens</i> etc.	fish

## PROCEDURE



1. Veterinarian sends the samples to a diagnostic laboratory
2. Laboratory sends the results to the veterinarian
3. Veterinarian decides to use an autogenous vaccine
4. Veterinarian informs the laboratory
5. Veterinarian sends an order form to BS-Immun via fax or email (the order form can be downloaded on the website)
6. Laboratory sends the isolates to BS-Immun
7. BS-Immun delivers the vaccine to the Veterinarian

For the production of **papilloma vaccines** the material can be:

- sent to BS-Immun directly (dry or humid with sterile NaCl solution)
- first examined by patho-histological examination (send the material to the laboratory in formalin solution); if the result is positive for papilloma viruses, the material is sent to BS-Immun.

## STOCK

Bacterial isolates are collected and archived in our stock for reorders.

## REGULATIONS

In Austria, accreditation of autogenous vaccines is not mandatory. Hence, there is no assessment of efficaciousness or innocuousness. Autogenous vaccines must be applied in livestock or individual animals only in which the aetiologic agents have been isolated.

Production of autogenous vaccines is subject to regulations (Bestandsspezifische Impfstoffe – Betriebsordnung 2010). Manufacturers require a manufacturing authorisation by the responsible authority (Bundesamt für Sicherheit im Gesundheitswesen).

Autogenous vaccines are only dispensed to veterinarians.

## RECOMMENDED DOSE

An accompanying letter is added to each batch.

species	dose: adult /juvenile	minimum order quantity
pig	3 ml / 1-2 ml	300 ml = 100 doses
cattle	5 ml / 3 ml	250 ml = 50 doses (papilloma vaccine: 50 ml = 5 doses)
sheep, goats	2 ml / 1 ml	200 ml = 100 doses
poultry	0,5 ml	500 ml = 1.000 doses
fish	-	1 litre

## PRICES

Prices are available for veterinarians on request.

## ADVICE

- Presentation „Herstellung bestandsspezifischer Impfstoffe und rechtliche Grundlagen.“ [http://www.basg.at/uploads/media/100217\\_Rechtliche\\_Grundlagen.pdf](http://www.basg.at/uploads/media/100217_Rechtliche_Grundlagen.pdf)

Please contact us for further information:

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