



# **Tailor-Made<sup>®</sup>**

## **autogenous vaccines**

*by Phibro Animal Health*

*Tailor-Made<sup>®</sup> autogenous vaccines – an aid in protecting your herd against a wide range of bacteria and mycoplasma. Tailor-Made vaccines have the ability to fit your herd's needs through customized formulations, combination vaccines and proprietary adjuvants. This flexibility enables protection against multiple pathogens in one convenient vaccine presentation.*

Phibro offers a well-recognized diagnostics lab and R&D capabilities for autogenous vaccine manufacturing, as well as a team of cattle veterinarians that work closely with universities and state diagnostic laboratories to meet the autogenous vaccine needs of the beef and dairy industries in the U.S.

### Key antigens used in the production of Tailor-Made autogenous vaccines:

Beef and Dairy Cattle Bacterial			
General Syndrome	Most Common Isolates		
Respiratory	<i>Escherichia coli</i>	<i>Histophilus somni</i>	<i>Mannheimia haemolytica</i>
	<i>Mycoplasma bovis</i>	<i>Pasteurella multocida</i> Type A	
Enteric	<i>Clostridium perfringens</i> Type A	<i>Clostridium perfringens</i> Type A + Beta 2	<i>Clostridium perfringens</i> Type C
	<i>Clostridium perfringens</i> Type E	<i>Escherichia coli</i>	<i>Salmonella spp</i>
Pink Eye	<i>Moraxella bovis</i>	<i>Moraxella bovoculi</i>	<i>Mycoplasma bovoculi</i>
Mastitis	<i>Escherichia coli</i>	<i>Klebsiella pneumonia</i>	<i>Staphylococcus spp</i>
	<i>Streptococcus spp</i>		
Other	<i>Bacteroides pyogenes</i> (foot rot)	<i>Escherichia coli</i>	<i>Fusobacterium necrophorum</i> (foot rot)
	<i>Mycoplasma bovis</i>	<i>Mycoplasma bovoculi</i>	<i>Porphyromonas spp.</i> (foot rot)
	<i>Trueperella pyogenes</i>		

### Tailor-Made autogenous vaccines offer additional value through:



1. A novel bacterial growth procedure for Enhanced Antigen Surface Expression: "EASE™". This laboratory technology creates nutrient restricted environments. This restrictive condition induces Gram-negative bacteria to hyper-express nutrient-capturing proteins on their surface. These proteins are highly antigenic and can be utilized by the cow's immune system to strengthen its response against the pathogenic organisms.

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2. Tailor-Made autogenous vaccines for pinkeye are manufactured using cultures either from swabs taken directly from affected animals that are shipped to our diagnostic facility or from cultures forwarded from regional or state diagnostic laboratories. The isolates are then scientifically selected for vaccine production which uses state-of-the-art culture media to optimize antigen expression. Each isolate is grown independently and then blended with proprietary adjuvants to make a BQA-friendly product.



3. Phibro's proprietary adjuvant expertise allows us to formulate all our Tailor-Made autogenous vaccines by selecting the best adjuvant for the vaccine from a wide range of options by MVP adjuvants®.



4. VAC Tracker™ – a user friendly, convenient tool that helps manage your Phibro autogenous vaccine orders 24/7 from your smartphone, tablet and/or computer:

- View isolates
- Check vaccine inventories
- Complete isolate extension paperwork

Speak with a Phibro Expert to arrange delivery of a free sampling kit and/or get directions on how to ship samples to Phibro's Diagnostic Laboratory:

800-856-4648 | [www.pahc.com](http://www.pahc.com)

\*\*Potency and efficacy of autogenous biologics have not been established.  
Phibro Autogenous Vaccines are developed with MVP adjuvants.