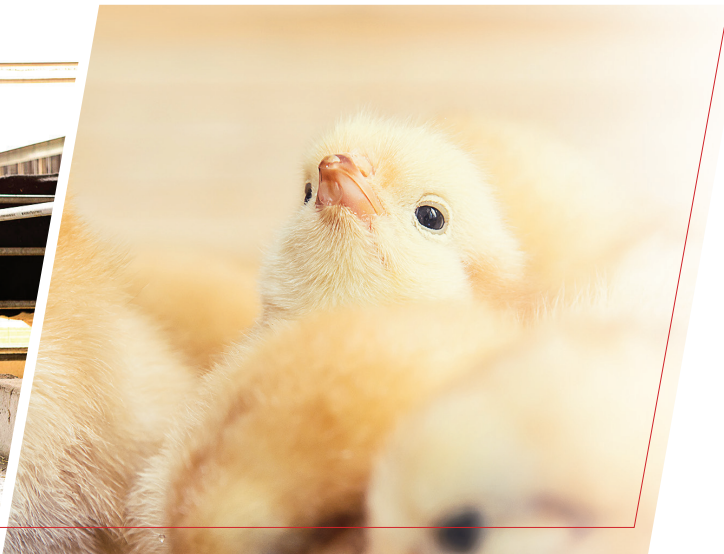




**HEALTHY ANIMALS. HEALTHY FOOD. HEALTHY WORLD.®**





***WE ARE  
PHIBRO***



**Phibro**  
ANIMAL HEALTH CORPORATION TM



## *At Phibro, Your Success Is Our Mission.*

*That's why we're committed to providing safe and effective products and services that support your production of healthy food-producing animals.*

*It all starts with the right people. Experts who bring practical experience and expert product knowledge to support your individual needs. From our best-in-class manufacturing facilities to your local representative, our people have a passion for your success and are ready to roll up their sleeves to help you achieve it. Because the world's still growing and that means the global demand for protein is, too.*

*By working together, we continue to evolve our worldwide portfolio of solutions so that we can continue to meet your local needs. All to help your animals—and your business—thrive.*



# GLOBAL SOLUTIONS THAT SUPPORT LOCAL OPPORTUNITIES.



## The Right Solutions. For Every Species.

At Phibro, we specialize across several disciplines to ensure producers have access to a comprehensive combination of solutions, available across species.

- **Medicated Feed Additives**
- **Vaccines**
- **Phibro Services**
- **Nutritional Specialty Products**
- **Direct-Fed Microbials**
- **Mineral Nutrition**

To complement each of these categories, we have built a robust product development system, featuring teams of scientists, Ph.D. nutritionists and veterinarians—all of whom bring extensive production experience. To ensure our products integrate the most promising ingredients, we have developed a strong expertise in ingredient analysis right here in our own laboratories.

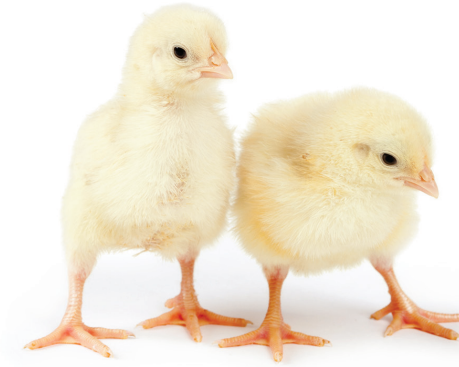
And in order to more fully develop our products from initial design to final commercialization, we partner with universities and commercial entities all over the world.

### Medicated Feed Additives

Our animal health business primarily consists of concentrated medicated products that are administered through animal feeds. These include the production and sale of anticoccidials as well as antibacterials used to control bacterial infections.

### Vaccines

Our vaccine products are primarily focused on preventing diseases in poultry and swine; however, we also offer vaccines for cattle and aquaculture in some countries. We offer both conventional and autogenous (custom) vaccines to best fit our customers' needs.





### **Nutritional Specialty Products**

We are a leading provider of nutritional specialty products that support nutrition for dairy cows, beef cattle, swine, poultry and aquaculture. Many of our offerings have been developed through basic research in cooperation with private research companies or by leading universities with whom we collaborate and then further develop through commercial trials with customers.

Every one of our nutritional specialty products was developed to help optimize animal health and performance with science-based solutions.

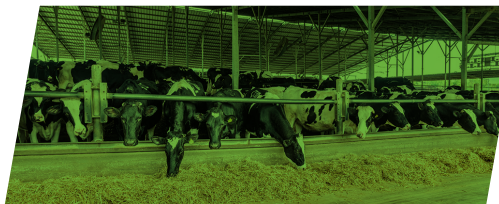
### **Direct-Fed Microbials**

The culmination of decades of leading research and manufacturing by Osprey Biotechnics, is now part of the Phibro family of brands. Our MicroLife® portfolio contains products with highly active, specifically selected strains of Bacillus and other specific microbes, to promote animal health by helping to optimize the microbiome. An optimized microbiome may lead to pathogen reduction, reduced occurrence of disease and improved animal health and performance.

### **Mineral Nutrition**

For decades, we've sourced a broad portfolio of high-quality minerals from world-class partners, and we continue to bring a fundamental knowledge of how premium-quality minerals are processed—so we can provide customized products for plant and animal applications.

In today's environment, understanding the source of minerals and ensuring their quality is critical to our customers' businesses and our own. With our rigorous **Dynamic Quality Assurance®** program, we can help provide the added security you need for your business and our food supply.



## Phibro Services

In addition to our expansive portfolio of solutions, we also provide support and services that ensure the highest-quality performance you need for the efficacy of our products and the success of your operation.

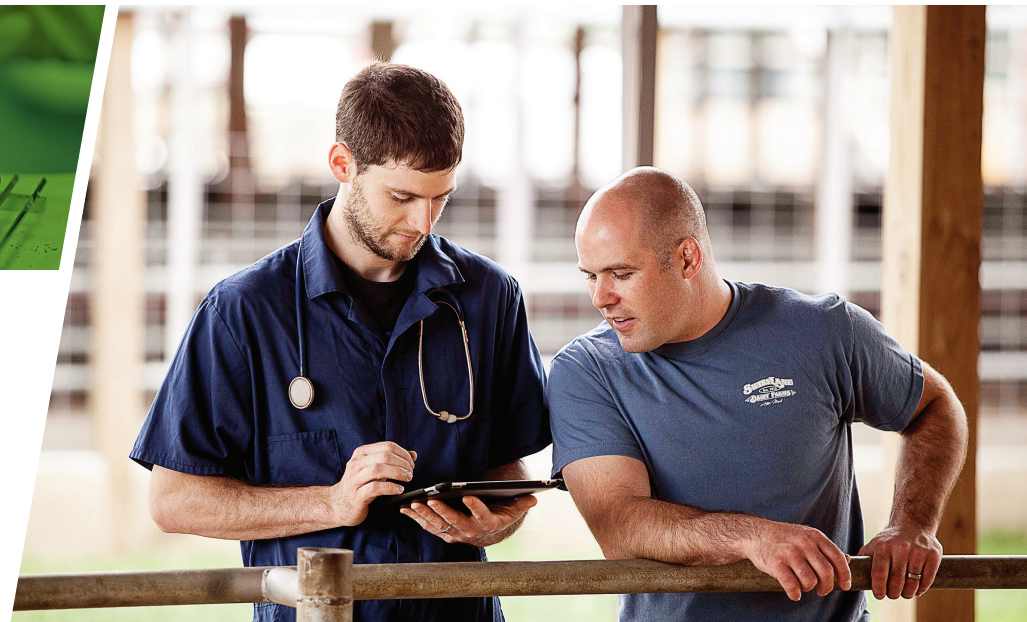
**Field and Lab Services:** We provide on-hand field technical support to ensure each of our products functions at the highest standard of performance. We offer on-farm assessments and services such as blood calcium, urine pH and mycotoxin analysis, as well as field assays that ensure high mixability and ultimately support our customers' individual quality control programs.

**Tailor-Made® Vaccines:** Phibro sales and technical service teams work closely with veterinarians to deliver solutions that address their unique health challenges through:

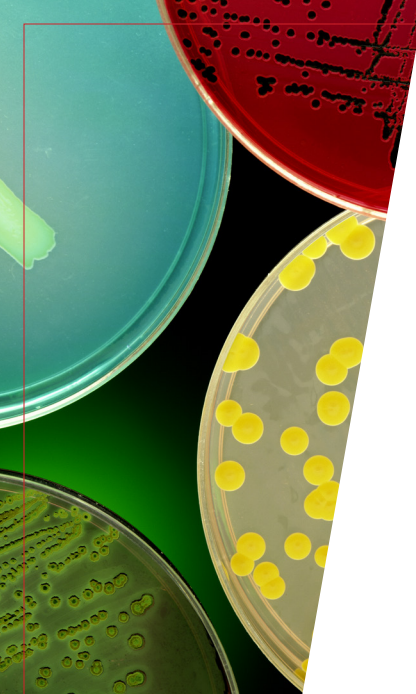
- Reliable, accurate and timely response from our specialized Diagnostic Lab
- Isolating and identifying specific pathogens via DNA sequencing
- Manufacturing autogenous vaccines that include MVP adjuvants®
- MJPRRS®, which incorporates patented grouping technology to deliver the specific virus groups isolated on customers' farms

**Toll Manufacturing:** Our team of highly skilled professionals and efficient processes allow us to provide customized solutions for specific customer needs. We provide contract toll manufacturing services, which include controlled procedures and customized production. We ensure customer information is held in confidence, providing tailored solutions in areas such as:

- Direct-Fed Microbials
- Custom Nutritional Specialty Product Blends
- Trace Mineral Premixes







## *Dynamic Quality Assurance®*

**Dynamic Quality Assurance:** For decades, we've had the people, processes and commitment in place to produce trusted animal nutrition ingredients. It is our dedication to product quality that allows us to maintain a level of excellence to ensure our ingredients are safe and effective, with a five-fold approach:

- Education of our employees, suppliers and customers
- Process reviews to identify potential quality issues, contaminants and points of contamination
- Ongoing analysis to confirm effective implementation of established controls
- Identification of unknown hazards to ensure continuous product integrity
- Adaptability through continuous improvement to meet ever-changing feed safety issues

*At Phibro, we're always looking for new ways to advance the way we provide you with solutions and support. All to ensure you have the tools for success, across species—and all across the world.*

**Phibro**  
ANIMAL HEALTH CORPORATION TM

# ALWAYS GROWING.



**1946**

Formed as  
Philipp Brothers  
Chemicals, Inc.

**1974**

Acquired Koffolk,  
an Israeli animal  
nutrition business

**1980**

Began nicarbazin  
manufacturing



**1980**

Acquired assets &  
established U.S.  
animal nutrition  
business,  
Prince Agri Products

**1994**

Began  
amprolium  
manufacturing



**2000**

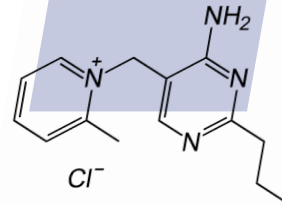
Acquired global  
medicated feed  
additive business  
from Pfizer Inc.

**2002**

Change  
name  
Animal  
Corporation



Oruro, Bolivia Office - 1928



**Phib**

# ALWAYS EVOLVING.

**2003** Corporate  
Phibro  
health  
tion

**2009** Acquired Abic  
Laboratories, an  
Israel-based  
vaccine business

**2009** Acquired Baltzell  
U.S. mineral  
nutrition business

**2011** Acquired Animate®  
nutritional specialty  
product

**2012** Acquired OmniGen-AF®  
nutritional  
specialty product

**2014** Acquired AquaVet  
aquaculture veterinary  
consulting & product  
development business

**2014** Became a  
public company,  
NASDAQ: PAHC

**2015** Acquired Western  
Yeast business, a  
producer of yeast  
products  
(Cellerate Yeast Solutions®)

**2015** Acquired rights  
to MJ Biologics  
technology  
(MJPRRS®)

**2016** Acquired MVP  
Laboratories animal  
vaccines and  
adjuvants business

**2017** Acquired Biotay  
Argentina animal  
health business

**2018** Acquired vaccine  
facility  
- Sligo, Ireland

**2018** Acquired KoVax  
aquaculture vaccine  
technology  
**KoVax**

**2019** Acquired Osprey  
Biotechnics  
business, a provider  
of innovative &  
beneficial  
micro-organisms

**OSPREY**  
Biotechnics



## *We're All in This Together*

*When it comes to raising healthy animals, you need more than the right solutions. You need the right partner who brings decades of industry expertise and a global team to put that knowledge to work for the advancement of your operation. Because at the end of the day, we're all in this together, and we are proud to work with you as your trusted partner, every step of the way.*



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Learn more at [pahc.com](http://pahc.com)

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