## **Better Value for a Better Life!**

The Frontier of Animal Health Care

**EAGLE VET** 

# Run! for the **Dream**

Fly to the **Future!** 







CEO MESSAGE

As the CEO, I assure you that we will become the most innovative company in the animal healthcare industry in the 21<sup>st</sup> century.

I am very proud to say that the history of Eagle Vet is representative of Korea's healthcare market.



We have been making every effort to be the world's leading company in the animal healthcare market for the past 46 years. All the while, we have sustained robust growth by continually developing new products and strictly controlling product quality.

We took our first step towards the global market in 1990 by making inroads into New Zealand and Australia, Vietnam and have since been striving to expand our international presence. Since then, we have built an extensive network around the world, with a presence in more than 20 countries as of 2016. Our successful globalization drive gained momentum after completing the construction of a new factory that conforms to EU-GMP standards.

The factory is designed to prevent cross-contamination by separating production facilities and processes by products, and is expected to contribute to helping us sign more CMO (Contract Manufacturing Organization) contracts with the world's leading production and sales enterprises in the animal healthcare industry. In addition, I believe that the factory will become our new growth engine to lead our sales expansion and sustainable growth down the road.

Eagle Vet has also expanded its role in the pet healthcare market by introducing nutritious and healthy food for companion animals, widely considered another family member in an increasingly individualized society. In order to manufacture eco-friendly animal medicine, we have actively participated in developing bio feed based on natural materials, such as dandelions and thistles. This clearly demonstrates our ceaseless efforts to find new growth engines.

I can sincerely say that we will continue to devote ourselves to achieving sustainable growth on our way to becoming a centennial company. Furthermore, our aim is to become one of the world's most innovative companies in the animal healthcare industry in the 21st century. Please join us our journey towards innovation and sustainable growth, as we will always be there for you.

Thank You.



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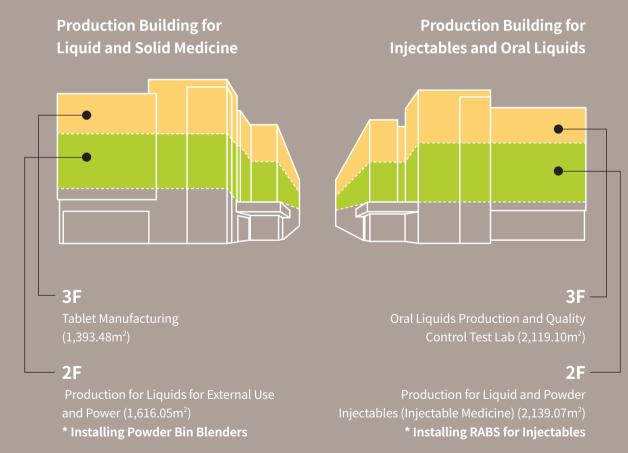
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# Equip ment

Eagle Vet ensures timely, stable production by maintaining cutting-edge automation facilities.

Completed in November 2014, Eagle Vet's EU GMP grade factory is equipped with advanced automation facilities. In a bid to pre-empt risks associated with cross-contamination and improve the quality of animal medicine, we furnished the new factory with cutting-edge equipment, such as auto vial washers and tunnel sterilizers, as well as high-priced facilities such as RABS (Restricted Access Barrier Systems) for injectables and bin blenders for producing soluble powders. These initiatives have maximized our productivity and efficiency, thus guaranteeing fast, reliable production.



Total Area **8489.85**m<sup>2</sup>

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The establishment of our state-of-the-art facilities, together with strict manufacturing process management, enables us to eliminate cross-contamination.

As a world-class production plant, our new factory aims to keep advanced automation facilities upto-date and ensure strict management with all manufacturing processes. In particular, we have made the utmost effort to prevent cross-contamination in a pre-emptive manner by introducing RABS for the first time in Korea's animal healthcare industry as well as by setting up air conditioners and weighing machines separately by production process.

# 1 -

# Facilities for Injectables Production

The safety of our injectables (injectable medicine) plant is well established because it is equipped with RABS, the advanced anti-contamination system, and an unmanned automation system. We strictly control the quality of water used for injectables by separately installing air conditioners. We are also furnished with auto bottle washers, tunnel sterilizers, and visual inspection machines to filter impurities. All of these efforts help us ensure crosscontamination does not take place.

### 1 RABS: Restricted Access Barrier System

Eagle Vet has installed a new level of quality control system at our injectables plant by operating RABS, the advanced anti-contamination system. We insulate our products from contamination by installing RABS to deal with such production processes as injectables refills, sealing, and capping, all of which are vulnerable to artificial contamination. This enables us to forestall contamination by using prepared gloves without opening equipment even in the case of setup and cleaning, supply of rubber stoppers and aluminum caps, and vial removal. The introduction of our cutting-edge equipment—the first in Korea's animal healthcare industry—is considered a remarkable achievement in the market.

### 2 Weighing Booth

Eagle Vet runs a very strict and precise weighing system due to the fact that the exposure of raw materials to outside influences can lead to cross-contamination, while mixing with impurities can affect the quality of the final product. For this reason, the new factory installed weighing booths according to dosage form. In addition, we make it a rule to measure the weight under the laminar flow, a policy to completely prevent cross-contamination and dust generation.

### **3** Tunnel Sterilizer

Compared to other products, injectables should go through stricter quality control steps and more complicated manufacturing processes. Tunnel sterilizers installed at the new factory are aimed at preventing injectables from cross-contamination and microbial contamination. This advanced facility autowashes glass vials (injectables containers) and then sterilizes them at 300°C.

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### 4 Visual Inspection Machine

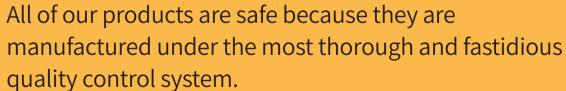
Since sterile (germ-free) injectables are products injected into the bodies of animals, mixing them with impurities can cause fatal side effects. Therefore, Eagle Vet has introduced an advanced visual inspection machine to prevent its products from being contaminated with impurities for flawless quality control. Installed at the new factory, the machine is designed to examine the mixture of impurities, and is able to inspect up to 2,500 vials per hour.

### 5 Packaging Machines

At the last stage of the injectables production, Eagle Vet uses auto packaging machines to facilitate fast and precise packaging. The auto packaging machines, which are installed at the injectables production line of the new factory, offer a one-stop system and allow all packaging processes—attaching labels, inserting product guides, case packaging and box packaging—to take place simultaneously for greater convenience.

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n order to produce safe, high-quality animal medicines, Eagle Vet has introduced a rigorous quality control system and established a safety management system with multiple backup measures. In fact we have stepped up our efforts to ensure safe production by adopting BMS, an integrated building management system, and introducing RO, EDI and Loop, all of which are facilities for managing wate for manufacturing.







1

# 3

# Facilities for Oral Liquid Production and Quality Control (QC) Test Lab

The manufacturing of our oral liquids is fast and precise because they are produced under our advanced auto production system. The system is able to produce up to 480,000 bottles (1 liter per bottle) and prevents its products from crosscontamination and microbial contamination with a thorough cleaning system. In addition, we endeavour to ensure the best product quality management by adopting advanced analysis equipment that is able to conduct auto sampling and injectables, such as HPLC (High Performance Liquid Chromatography) and GC (Gas Chromatography).

### 1 CIP/SIP System

We established a CIP/SIP system to have all of our oral liquids or liquid injectables undergo our rigorous cleansing process after product production. This is very effective in preventing cross-contamination and microbial contamination.

### **2** Oral Liquids Auto Production Line

Oral liquids are manufactured under our auto production system. The system is able to produce 1,800 to 3,000 bottles (100 mil to 1,000 ml per bottle) per hour. All the processes, including washing bottles, refill, capping and packaging, are carried out automatically.

### 3 HPLC

### (High Performance Liquid Chromatography)

Installed at the Quality Control Test Lab, High Performance Liquid Chromatography is an essential piece of equipment for both qualitative and quantitative analysis. The equipment is able to automatically inject 100 samples and bring analysis results. In addition, its data processing system is secure because it meets the CSV (Computer System Validation) standard. Equipped with an audit trail function, it is also very effective in data tracking.

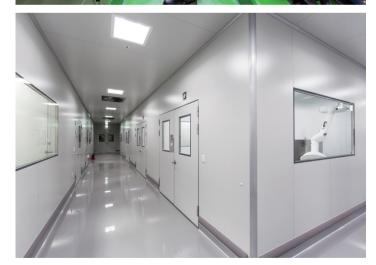
### GC (Gas Chromatography)

Gas Chromatography is an essential piece of equipment for analysis of residual solvents of raw materials and products, as well as for qualitative and quantitative analysis. The device is able to carry out an unmanned auto analysis of 50 samples. Its data processing system, like that of HPLC, meets the CSV standard.









### **Manufacturing Facilities for Soluble Powders**

### 5 IBC Blender & Powder Filling Machine

IBC blenders and powder filling machines are equipment to prevent cross-contamination, the riskiest factor in medicine production. The equipment minimizes cross-contamination by enabling the blender to mix raw materials and directly install the bin at the filling machine when soluble powders are manufactured.

### **Production Support Facilities**

### **6** Water Treatment System

A water treatment system is a facility to manufacture purified water, which is water used for manufacturing, one of the most important raw materials in medicine production. The facility consists of two RO (Reverse Osmosis) systems and an EDI (Electro Deionization) system. The facility is operated under the Loop System for circulation to prevent microbial contamination.

### 7 HVAC System

The HVAC System is a facility to supply germ-free air in order to maintain a clean manufacturing environment for medicine production. In particular, the system separately installs a total of 20 air conditioners according to production process and air cleanliness. The system, which is controlled by BMS (Building Management System), is optimized for risk management.

### **Division of Worksites by Dosage Form and Process**

8 The new factory was designed to minimize cross-contamination by separating and dividing worksites by dosage form as well as production process.





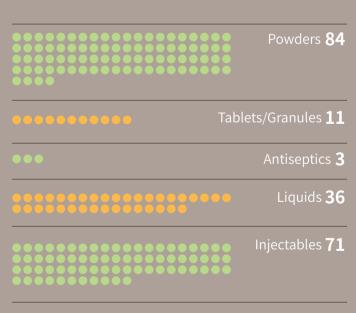
Tablets
64.8 million

Liquids for external use 2,472,000

Eagle Vet has improved its production capacity by establishing advanced facilities at the new factory.

With the new factory, Eagle Vet has secured the ability to produce high-quality products not only faster but also in a more stable way. As a point of fact, cutting-edge automation equipment at the new factory is expected to contribute to bolstering our annual production, leading to an expansion of our exports and an increase of deals in the CMO (Contract Manufacturing Organization).

### **Our Products**



A total of 205 kinds

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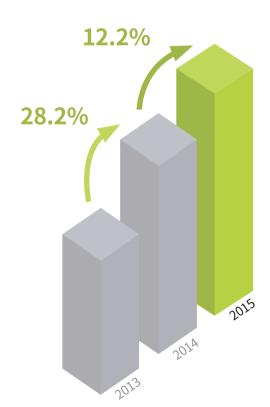
Eagle Vet is realizing sustainable growth through bold investments and global expansion. We have enjoyed continuous improvement in operating profits on the back of robust sales growth. Our forward-looking investments and global expansion drive are our main engines to ensure sustainable growth.

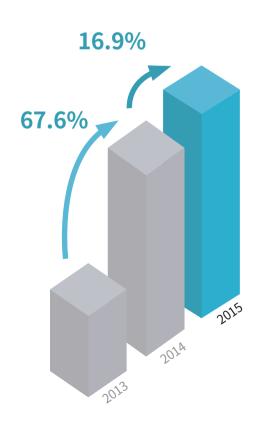
### Sales Growth

We saw continuous sales growth of 28.2 percent in 2014 and 12.2 percent in 2015, both results powered by export increases and entry into the companion animal business and bio industry.

# Operating Income Growth

Underpinned by robust sales expansion, we also enjoyed enviable growth in our operating profit. The company saw a 67.6 percent increase in operating income over the previous year in 2014, and a 16.9 percent increase over the previous year in 2015.



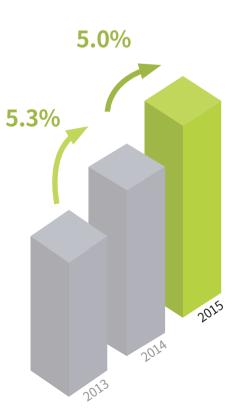


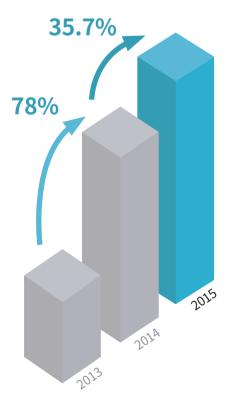
# Results in the Veterinary Medicine Business

Eagle Vet has devoted itself to the animal medicine industry for the last 46 years. We have posted more than USD 10 million in sales every year and are expected to achieve even greater sales growth down the road with the construction of the new EU GMP grade factory.

# Results in Companion Animal Business

Eagle Vet's companion animal business has enjoyed double-digit growth in sales since it started in 2002. In 2015, the business showed an explosive growth of 241 percent from 2013.





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# Eagle Vet leads the animal healthcare industry with creative and innovative technologies.

We have been able to play a leading role in Korea's animal healthcare industry by obtaining a variety of patents and certifications as a result of ceaseless R&D investments and innovative technology developments. Specifically, some of our patented products have greatly contributed to making our superior technologies widely known both at home and abroad. These include Eagle Cocci-AF, an effective anthelmintic to treat and prevent coccidiosis; Dr. Area, a medicine to improve calves' bowel movements; and Speed Trans, a device to transfer liquid medicine.



### **Injectables**

Our injectables are top-quality products manufactured under advanced facilities and high technologies. Together with tunnel sterilizers, the RABS system, which was introduced by Eagle Vet for the first time in Korea's animal healthcare industry, ensures top-product qualities and safe production.



### Additive

With the installment of the bin blender, Eagle Vet is able to produce products with a homogeneous composition of active ingredients. We are also equipped with production facilities to block the cross-contamination liable to take place when producing powders.



### **Oral Liquid**

Eagle Vet established the CIP/SIP System to pre-empt contamination. We are also striving to guarantee the best quality control by installing advanced analysis equipment, such as HPLC and GC.



### **Bio Product**

Our bio research lab has continually developed products based on natural raw materials. In particular, we have made efforts to produce bio products using garlic, dandelions, and thistles.

### **Patent**







### Eagle Cocci-AF

Eagle Cocci-AF is a medicine that is very effective in the treatment of coccidiosis for calves and piglets. It is especially effective in curing diarrhea accompanying enteritis symptoms. If taking it constantly for more than four months, it can prevent infection from strongyle.

### Dr. Area

Dr. Area is a comprehensive nourishing food product combining diverse live bacteria and herbs. It prevents proliferation of hazardous germs or bacteria in a calf's body by speeding up the formation of a calf's normal bacterial flora. It is also effective in improving bowel movements by weakening toxins released by harmful germs and bacteria.

### **Speed Trans**

Speed Trans, an innovative medical device to transfer a liquid medicine, prevents cross-contamination and microbial contamination.

### Certification





### Certificate for an In-house Research Center

Eagle Vet launched an in-house research center to find a new growth engine and implement a variety of research activities. Currently, we are carrying out many different projects, including the development of functional supplementary feed and a study on natural recycling-based farming.

### **Inno-Biz Certificate**

Eagle Vet was selected as an Inno-Biz company for technological innovation on the basis of the government's initiative to find and foster innovative small- and medium-sized enterprises.



# Eagle Vet is moving ahead of its rivals in R&D with the establishment of an in-house research center.

We also stand shoulder to shoulder with the world's leading companies by expanding our investments into R&D to foster future growth engines, such as the launch of a bio business unit and the establishment of an in-house research center. In fact, we plan to introduce animal medicines and functional supplementary feed, which are produced using natural plants (dandelions and thistles) and minerals as raw materials.



### **Veterinary Medicine Business Unit**

With 46 years in the veterinary medicine business, Eagle Vet is now dominating Korea's animal healthcare market with an extensive business network. We are ready to move forward as a global veterinary medicine manufacturer with the construction of KVGMP-certified facilities and our new EU GMP grade factory.

### **Overseas Business Unit**

Eagle Vet has supplied high-quality animal healthcare products to 21 countries across the globe since it first shipped its goods abroad in 1990. We have also contributed to healthy livestock farming on the back of our superior manufacturing facilities and excellent product quality. For example, in order to boost sales in Africa, we set up a subsidiary in Uganda to carry out animal feed and medicine businesses in Uganda, Kenya and Rwanda. Going forward, we aim to export our products not only to Europe but also to the Americas through EU GMP certification.

### **Companion Animal Business Unit**

Eagle Vet, which launched a companion animal business in 2002 as an industry leader, has been engaged in the distribution, production, and sales of a variety of healthcare products, including feed and snacks for dogs and cats. In an effort to meet customers' needs, we supply premium goods produced in Canada as well as high-quality products manufactured by Eagle Vet. We are doing our utmost to become the top company in the companion animal industry by developing prescription-type feed and diversifying our business portfolio.

### **Bio Business Unit**

Through its in-house research center, Eagle Vet is devoting itself to developing natural substance-based bio feed and aims to commercialize it by 2017. We expect the development of natural substance-based bio feed will contribute to strengthening the animal immune system and improving liver function. By doing so, we are pursuing preventive medicine to replace antibiotics and plan to contribute to healthier livestock farming in favor of animal welfare.

Eagle Vet desires nothing more than to become the leading company in the animal healthcare industry by continually pioneering new markets abroad.

Eagle Vet has expanded its global presence since it first exported its products to New Zealand, Australia and Vietnam in 1990. Now the company is emerging as an industry leader in the African animal healthcare market by developing and introducing products tailored to African nations like Kenya, Uganda and Rwanda where even multinational companies are struggling to gain a foothold. In addition, with the construction of our new factory, we will speed up our emergence into the Middle East, Europe and the Americas.



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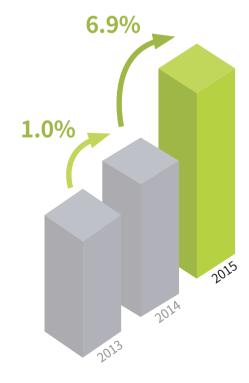


Eagle Vet will continue to make efforts to expand its overseas presence by moving towards Europe and the Americas and beyond Asia and Africa.

Eagle Vet has established a reputation in Asia and Africa as a leading animal healthcare product provider by developing and exporting customer-tailored products reflecting regional characteristics. With the aim of boosting sales in Africa, we set up a subsidiary in Uganda to carry out animal feed and medicine businesses in Uganda, Kenya and Rwanda. In addition, we will seek to obtain EU GMP certification for our new factory completed in 2014, in order to make inroads into Europe and the Americas and to further increase exports.

### **Annual Exports**

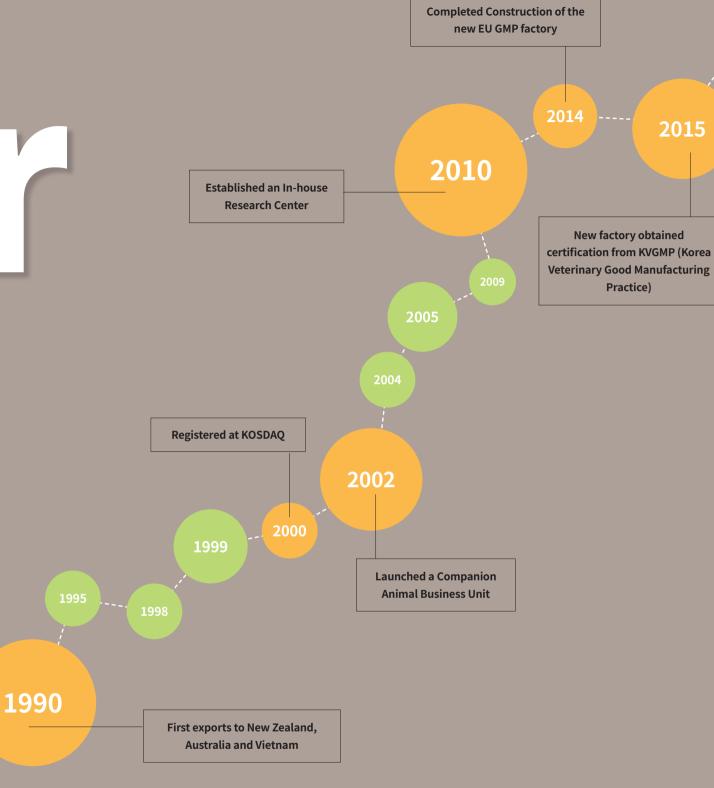
Eagle Vet has achieved sustainable growth by supplying animal healthcare products to over 20 countries across the world, including Kenya, Uganda and Vietnam. In fact, we have sped up our globalization initiatives since 2010 and have recorded exports of over USD 2.5 million annually.



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# Eagle Vet is now on its way towards becoming a centennial company.

Eagle Vet has solidified its leadership in Korea's animal healthcare market for the last 46 years since it made its debut under the name of Eagle Chemical in 1970. With the completion of construction of the new EU GMP factory, we aim to take another step forward to become a centennial company by expanding our presence in global markets.



2015

32 EAGLE VET TECH CO.,LTD. EAGLE VET HISTORY









Oct. 1970 Established Eagle Chemical Co.

May 1990 First exports to New Zealand, Australia and Vietnam

Eagle Vet was Korea's first animal healthcare company to enter the global market.

We started our globalization drive and expanded our overseas presence while other firms were focusing on the domestic market. We started exporting to New Zealand, Australia and Vietnam in May 1990, and today are now shipping our goods to over 20 countries and continue to expand our global presence.

June	1995	Constructed and relocated an injectables
		manufacturing plant
July	1998	Approved as a KVGMP (Korea Veterinary Good
		Manufacturing Practice) company for veterinary
		medicines for injectables, oral liquids, and infusions
Dec.	1999	Constructed and relocated a feed additives
		manufacturing plant
June	2000	Changed the company name to Eagle Vet. Tech co.,Ltd
Sep.	2000	Approved as a KVGMP company for veterinary
		medicines for feed additives, oral medication, and
		liquids for external use
Oct.	2000	Registered at KOSDAQ
Aug.	2002	Launched the Companion Animal Business Unit

Eagle Vet has enjoyed explosive growth after launching a companion animal business unit as a new growth engine in 2002.

With the continuing rise of people keeping companion animals, we entered the market (production and distribution) by providing various products, including feed, snacks and shampoos. We have posted double-digit growth annually. In particular, we achieved over KRW 10 billion in sales in 2015, solidifying our leadership in the companion animal industry.



### Eagle Vet has made bold investments in future growth opportunities.

We have also played a leading role in the development of diverse products by launching an inhouse research institute. We have been working hard to develop natural substance-based bio feed and preventive medicine products to replace antibiotics. Preventive medicine goods not only strengthen an animal's immune system, but also improve productivity.

Dec.	2013	Started the construction of the new EU GMP factory
Nov.	2014	Completed the construction of the new EU GMP
		factory
Aug.	2015	New factory obtained a certificate from KVGMP

## Eagle Vet has accelerated growth through overseas expansion.

We have even succeeded in obtaining a KVGMP certificate on the back of the construction of the new EU GMP factory and the establishment of advanced facilities. This will help us speed up our foray into Europe and the Americas, contributing to expanding our global network and bolstering sustainable growth.

Nov. **2015** Invested in establishing a Uganda · Rwanda subsidiary























Eagle Vet is maximizing its synergy effect after building a diversified portfolio of three businesses: veterinary medicine, companion animals, and the bio sector.

Centering on its veterinary medicine business with a proud history of 46 years, Eagle Vet is expanding its business into the companion animal business, which has showed sustainable growth since its launch in 2002, and a bio business aimed at finding a future growth engine. In addition, the three units have improved productivity and efficiency through continuous R&D investments while sharing their facilities. Through these efforts, we are amplifying the synergy effect of the three by expanding our global market presence and improving sales abroad.





### **Veterinary Medicine Business**

Eagle Vet is poised to become a leading player in the global animal medicine market.

Eagle Vet's animal medicine business, which has grown in tandem with the growth of Korea's animal medicine industry, has been the main engine to grow Eagle Vet as a top company in Korea's animal healthcare industry. With more than USD 10 million in sales, the business is exporting customer-tailored products to over 21 countries across the globe. With the adoption of KVGMP-certified facilities and the construction of a new factory that conforms to EU GMP grade, we are ready to become a leader in the global animal medicine market.

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### **Companion Animal Business**

Eagle Vet enjoys explosive growth in the companion animal business by introducing a variety of high-quality products.

Launched in 2012, the companion animal business has become a new growth engine for Eagle Vet recording double-digit growth annually. It has established a reputation as a premium brand in the market as its main products, such as feed, snacks and healthcare items, as well as received positive responses from customers. Going forward, we will solidify our leadership by trying various experiments and making diverse investments in the companion animal sector.

### **Main Products**

- Feed: Go! Natural / Now! Grain Free / Lunch Box
- Snack: Yummy Snack / A Bite of Love / Smoked Sausages
- Nutrient: Rx-Vitamins / Life Stages Pet Supplements
- Shampoo: Isle Of dogs (Coature/ Everyday / Salon), Dodona



### **Bio Business**

Eagle Vet is concentrating on developing natural substance-based bio feed products.

As part of our efforts to develop a new growth engine, Eagle Vet has made aggressive investments in the bio feed business. The establishment of our in-house research center, which encapsulates our technological capabilities, is an example that demonstrates our commitment to the bio feed sector. The development of natural substance-based bio feed is now at the clinical test stage, and if tests proceed as scheduled, we expect to commercialize it in 2017. We expect the development will contribute greatly to strengthening the animal immune system and improving productivity. By doing so, we are seeking to contribute to improving healthier livestock farming in favor of animal welfare.

# Eagle

Eagle Vet will take another step forward to become the most innovative company in the animal healthcare industry by continually pioneering new markets abroad, such as the Americas and Europe.

Eagle Vet is seeking to take a huge step forward through sustainable growth and innovation. We aim to develop new markets, such as the Americas and Europe—beyond Asia and Africa—by entering into a promising, future-oriented bio business and the construction of an EU GMP grade factory. By doing so, we will realize our dream to become the most innovative company in the global animal healthcare market.



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# Eagle Vet is taking the lead in the global animal healthcare industry with its clear goals and vision.

A company without a definitive dream has no potential for growth and no future. With a dream of always doing better tomorrow than today, Eagle Vet has made unrelenting investments in the future. With our clear vision of becoming the 21st century's most innovative company in the animal healthcare industry, we are determined to devote ourselves to achieving our goals to become Korea's first company to obtain an EU GMP certificate, and become one of the top three animal medicine manufacturers in Korea.

