

# Research Report on China's foot-and-mouth disease Vaccine (FMD Vaccine) Industry, 2009

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## Abstracts

Foot-and-mouth disease was the first animal virus people recognized. People had struggled with it for more than one hundred years. Besides several countries with natural quarantine conditions, foot-and-mouth disease still out broke and spread in many countries. Since the reform and open up, the animal husbandry has developed fast in China. However, because of the backward cultivation in the rural, the unsoundness of animal epidemic prevention systems and the outbreaks of foot-and-mouth disease in the neighboring countries, the foot-and-mouth disease greatly affected Chinese animal husbandry.

There are totally seven kinds of foot-and-mouth diseases, including A, O, C, Asia I, and Africa I, II, III etc, which mainly infect the artiodactyls, such as cattle, sheep, pig and camel etc. In 2004, Asia foot-and-mouth disease I spread into China. During 2004-2008, the foot-and-mouth disease in China all belonged to Asia foot-and-mouth disease I. Because of the fast spread speed, highly infected, Chinese animal husbandry was greatly influenced. The World Organization for Animal Health listed the disease as the disease A. China also strengthened the prevention.

In accordance with Law on Animal Disease Prevention of the People's Republic of China issued by Chinese government in July, 1997, Chinese government took compulsory immunization on the foot-and-mouth disease, namely, the government purchased the foot-and-mouth disease vaccines and handed them out free to the animal raisers. In 2008, the sales volumes of the foot-and-mouth disease vaccines were about 4.2 million liters with the market scales of 1.9 billion Yuan (270 million USD). It is predicted that the data will be held the line in 2009 and 2010.

The production models of Chinese animal vaccines are: the occurrence of epidemics,

the public bidding by local government, the production of enterprises and the hand-out by local government. Because the government undertakes the major responsibilities of epidemic prevention, the government purchase are the driving forces of the development in Chinese animal vaccine industry.

During 2007 to 2008, the outbreaks of Asia foot-and-mouth disease I turned down successively, only about three in the whole year of 2008. But at the beginning of 2009, the foot-and-mouth disease broke out frequently. On 13th January, 2009, the occurrence of cattle foot-and-mouth disease A in Wuhan of Hubei province was the first case of foot-and-mouth disease A in China. Foot-and-mouth disease A mainly lies in the Asia, South Africa and Middle East. In recent years, the neighboring countries of China took place the foot-and-mouth disease for several times. On 14th, January, Asia foot-and-mouth disease I took place in Xinjiang Aksu Region. In February, 2009, there happened a foot-and-mouth disease in Shanghai.

The foot-and-mouth disease probably leads to serious results, which has already attracted highly social attentions. In the beginning of 2009, foot-and-mouth disease occurred frequently in China, raising the demands for vaccines in a short time. From a long run, with the development of animal husbandry and the worries about the result of foot-and-mouth disease, the demands for the vaccines will also grow and the related enterprises will face a prosperous development.

Animal vaccines are typically featured as event movement. When major epidemics occur, the government will accelerate their purchases of vaccines. Therefore, the occurrence of epidemics is bad news for animal husbandry but development opportunities for animal vaccine industry (the increase of purchase types and quantities). In the beginning of 2009, the epidemics of foot-and-mouth disease A stimulated the vaccine purchases.

More following information can be obtained in this report:

- Outbreaks of the foot-and-mouth disease in China, 2007-2009
- Amounts on hand and sales amount of the cattle, sheep and pig etc in recent years in China
- Scales of Chinese foot-and-mouth disease vaccine market
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