



## Uniferon Best Practice Recommendation

### Iron molecule – committed to quality

Parental iron products from Pharmacosmos are all approved by globally recognized health authorities (EU/US FDA) and are thus considered highly effective and safe for injection or infusion into the bloodstream of humans and animals. In addition, the most recent and up to date approved irons generally offers advantageous in-use flexibility and convenience, in that they come approved for the highest possible iron dosing in one easy administration with minimal stress and maximum compliance to medication.

What else is important to know when choosing a quality iron brand?

As much as a quality finished iron product appears simple and uncomplicated – rest assured that it is the result of a highly sophisticated process, where the substance's keeping within tight specifications of narrow ranges and no variation from batch to batch may not always be taken for granted.

Iron compounds used in animals are often referred to as iron dextrans and are all iron dextran complex substances or derivatives thereof. Although often referred to under the same product category "iron dextrans", it is important to know parental irons as non-biological complex molecules. Although they may in many ways be referred to as identical, unlike other types of medicines they can never be claimed to be identical copies.

To secure the reliable output in a swine production of high standards, it may be necessary for the swine producer to consider the iron supplement in its entirety as part of the commitment to quality. This includes an essential understanding of the iron manufacturing process and quality dimensions related hereto to gain important knowledge, which may not be apparent or available when viewing the products on the shelf.

Since 1964 Pharmacosmos has developed and manufactured pharmaceutical quality carbohydrate compounds and iron compounds for parental use at a highly specialised facility first in Viby and since 2003 in Holbaek, Denmark. The processes at Pharmacosmos extend from raw material, carbohydrate fermentation, fractionation and filtration to iron complexing, in-house laboratory batch testing all the way to reliable supply of finished products.

Visitors are welcome at Pharmacosmos' fully automated, FDA approved manufacturing site. When touring the facilities, visitors get a first-hand experience of the state of the art pharmaceutical operation, fully integrated and with highly specialised production of parental iron for both humans and animals.

In fact the supply chain of Pharmacosmos extends all the way to more than 50 countries worldwide including US, China, EU and Russia, where Pharmacosmos' proprietary technology has enabled the obtainment of regulatory approvals and together with local partners the establishment of leading brand positions for Pharmacosmos' global iron brands Monofer and CosmoFer, for administration in humans by hospital specialists, and Uniferon, the no. 1 brand in the world for prevention and treatment of iron deficiency anaemia in piglets.

In short – the quality of iron given to a herd has everything to do with securing a reliable source of supply, committed to deliver the highest possible quality every step of the way to the point of care.

**Sincerely**  
**The Uniferon Team**

