

hepac

Your trusted source
for crude heparin
for natural
performance

HEALTH

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Leading Dutch manufacturer of high-quality, fully traceable crude porcine heparin

Hepac, a company of Darling Ingredients, is the go-to expert with direct access to high-quality mucosa of European origin at the source. Our robust processes, state-of-the-art process equipment, and stringent quality controls make us a trusted partner for customers worldwide

- Own supply-chain and stringent quality controls
- Access to and direct sourcing of high-quality European mucosa resonating in crude heparin for superior heparin API
- State-of-the-art processing
- Supplier of in-house produced crude heparin as a trusted starting material for unfractionated and low-molecular-weight heparin

Your trusted source for crude heparin

Principal producer of crude porcine heparin

- Crude porcine heparin to produce Heparin API and low-molecular-weight heparin
- Produced from high-quality traceable intestinal mucosa obtained via a controlled supply chain exclusively
- Exceeding industry standards with state-of-the-art process equipment and stringent quality controls

Our crude heparin is solely produced from porcine intestinal mucosa from pigs used for the food industry. Such pigs - which have been declared fit for human consumption by ante- and post-mortem approval by veterinarian authorities - are obtained from European pig slaughterhouses.

The origin of our crude porcine heparin is fully traceable to the farm level. The harvesting and handling process of pig intestines is one requiring skilled staff and specialized equipment.



That's why, besides working in compliance with industry standards, we have stringent quality and product safety requirements that we apply throughout our supply chain. It makes us the trusted source of crude heparin for the pharma industry for the manufacturing of the highest quality heparin (UFH) and low-molecular-weight heparin (LMWH).

It also makes us the go-to expert for guidance on how to achieve the highest-qualitative collected porcine mucosa within your processes that exceed industry standards.



As a leading expert on the market of crude porcine heparin is Hepac committed to sourcing the highest quality porcine mucosa of the natural origin. With us as your partner, you benefit from our expertise, comprehensive know-how, and guidance, reliable and efficient collecting services.

As we understand each other's needs about value-adding partnership and collecting the best mucosa for the market. It is our drive as trusted go-to-partner to service the industry by sourcing mucosa responsibly and compliant with all the strict regulatory requirements.

Adding value to natural performance

In today's heparin market it is not enough to just meet high standard specifications, it requires expertise to add value through sustainability, product safety, quality, and continuity. Understandable that heparin used in premium pharma solutions requires these paramount values.

- High-quality crude heparin, fit for all conventional processes towards heparin API
- Thorough control over our complete supply chain
- Guaranteed full traceability of all our crude heparin made from the intestinal mucosa
- Carefully controlled sourcing of our porcine mucosa on contracted locations

Expertise

With many years of experience and expertise in the animal by-products industry, we know what is needed to work in full compliance with strict safety and quality procedures.



Traceable

Working closely with our sister company CTH – as well as certified and EU-approved slaughterhouses – our supply chain is fully transparent: from farm to pharma.



Quality and compliance

Quality is key. For the manufacture of heparin API formulations, pharmacopeias make it mandatory to use raw materials from pigs ante and post-mortem approved for human consumption by the veterinarian authorities. Because we source in countries with a strong adherence to regulations only, we can guarantee that the porcine intestinal mucosa applied fully meet all such legal requirements.



Sourcing full-circle confidence

Service partner to process mucosa

- Maximize mucosa volume and quality with our servicing support and know-how embedded within your processes
- Guaranteed production continuity with our reliable equipment including maintenance and ensured availability of critical spare parts
- Exceeding standards with our full-service collection of the mucosa by our trained staff using state-of-the-art equipment



Product Safety

Hepac guarantees a product that is free of any foreign contamination. This is achieved by applying the highest-level hygiene protocols at the slaughterhouses and the Hepac plants, and full quality control throughout the supply chain.



meat production is a sustainable activity by nature. Nevertheless, we set ourselves even higher goals when it comes to sustainability.

For instance, our sister company Sonac processes protein that is a by-product from our crude heparin manufacturing process, that would otherwise go to waste. Using a patented process, Sonac turns protein hydrolysate into a value-adding ingredient for animal feed.

Continuity

We source our porcine mucosa from certified slaughterhouses across Europe. The geographical spread in suppliers means we can guarantee supply continuity. This steady flow of raw material – in combination with robust processes and state-of-the-art process equipment – ensures you can count on the highest delivery reliability.



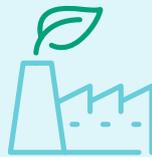
A Darling Ingredients company

Hepac is a Darling Ingredients company the industry-leading partner in diverse markets around the world. With deep appreciation for the importance of quality and safety from the sourcing of raw materials to processing products.

At Darling, we continuously research and develop innovative solutions for collecting and using by-products from the foodservice industry and producers. Our commitment is to provide the most efficient service every day.

Sustainable

We care for the environment and the earth's natural resources. A comforting thought, when you use Hepac crude heparin. Animal co-products are inherent to the production of meat. Re-purposing animal co-products from



About Hepac: Hepac is a producer of crude porcine heparin. Excellent access to high-quality European mucosa, reliable production processes and stringent quality control make Hepac a trusted partner for international pharma customers. Hepac is part of Darling Ingredients International. Hepac is registered with the Dutch Competent Authorities under register number 7048 API.

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