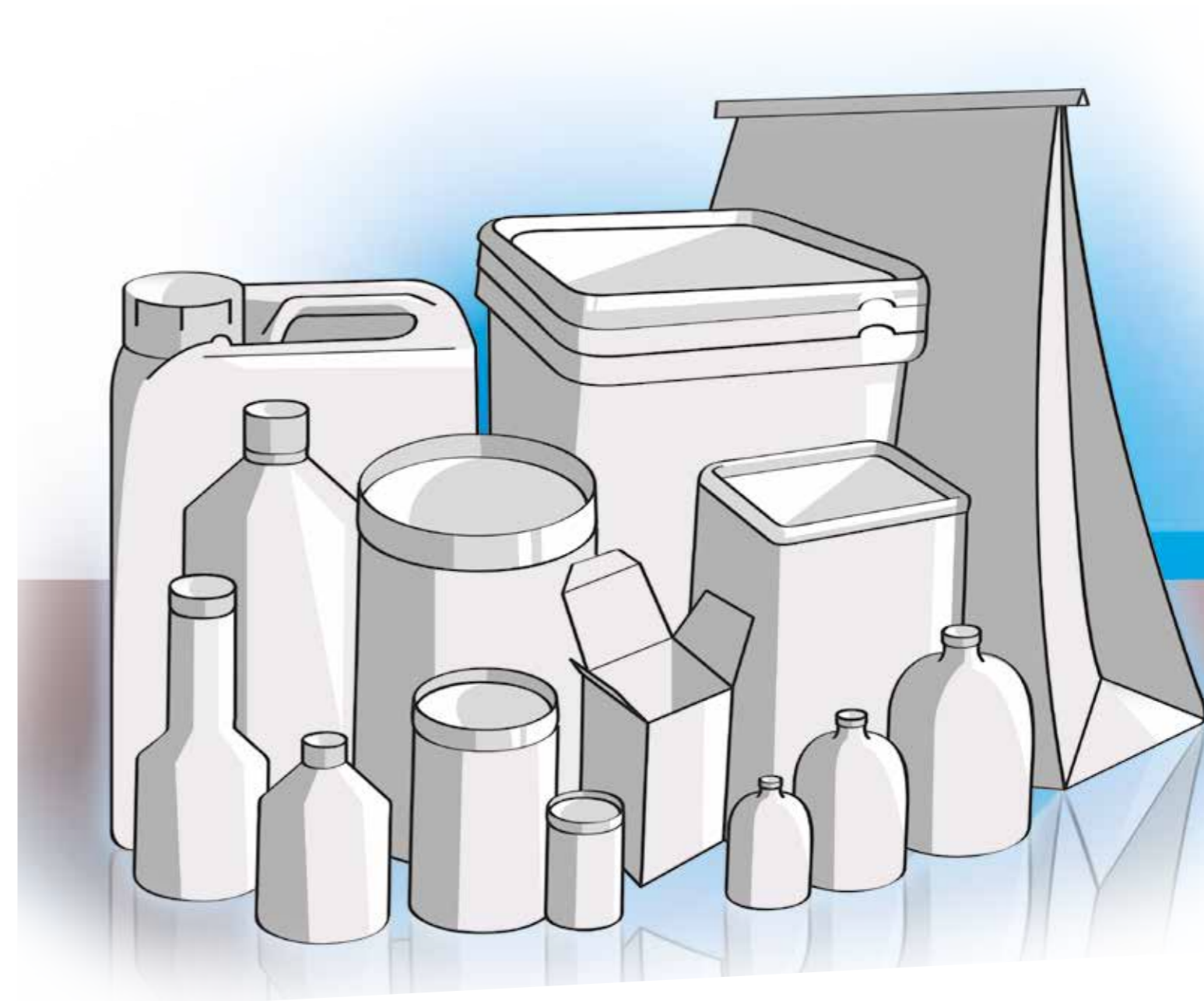


Contract Services

☎ +31 162 58 20 00
☎ +31 162 58 20 25
✉ BD@dopharma.com

Dopharma Holding B.V.
Zalmweg 24 - 4941 VX
P.O. Box 205 - 4940 AE
Raamsdonksveer - The Netherlands



Dopharma's production facilities are located in Raamsdonksveer, the Netherlands. Where, veterinary pharmaceuticals for the national and international market are prepared. Dopharma has almost 50 years of experience in Manufacturing and Research.

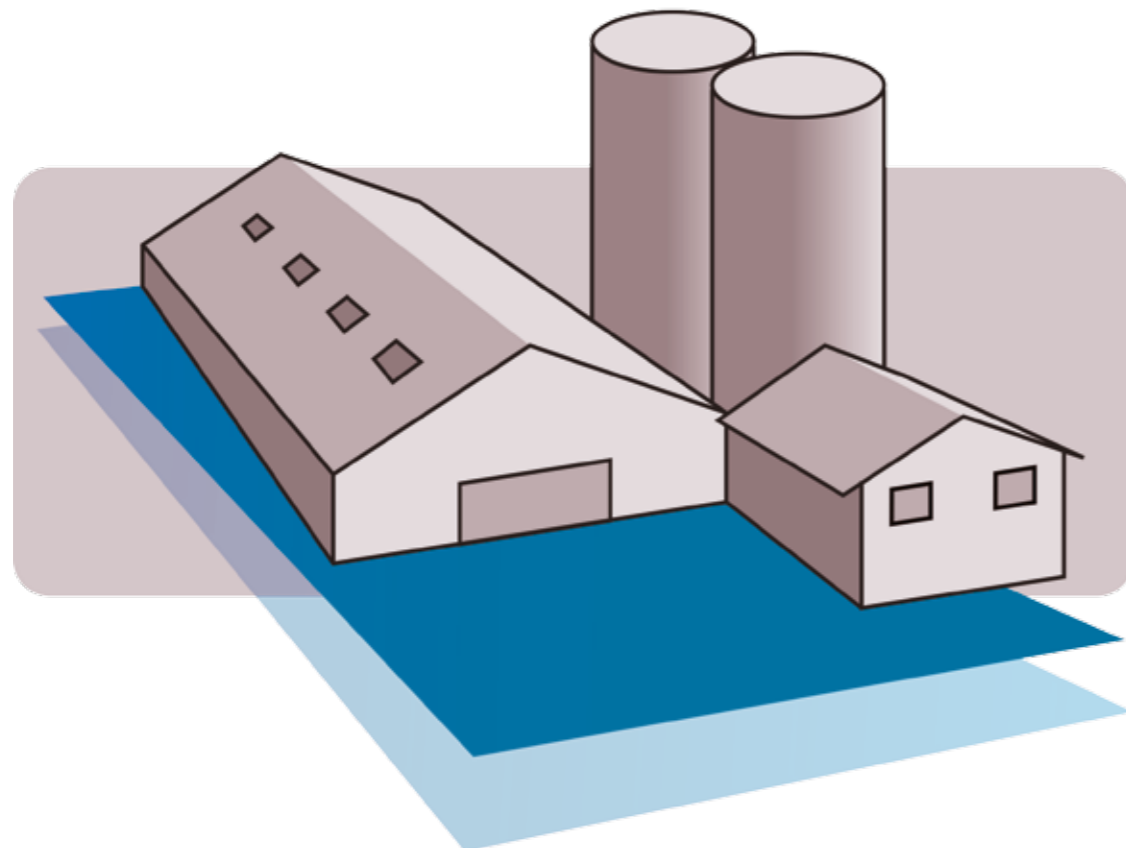
Manufacturing (in-house, GMP accredited)	Regulatory & Research (in-house, GLP accredited)
Water soluble powders (pen and non-pen)	Product development
Sterile injectables (pen and non-pen)	Target animal tolerance
Premixes	Bio-equivalence
Oral liquids	Pharmacokinetics
	Residues
	Stability studies
	Pilot batches

We have extensive experience in contract manufacturing and contract research from our GMP and GLP approved facilities. Our quality and reliable service can be recognized in all facets: we offer fast and clear communication, short lead times, high flexibility and punctuality from R&D support to regulatory know-how to comprehensive supply chain operations.

From the very beginning we include you as part of our team and demonstrate reliable and quick communication lines focussed on long-term business relationships. Our offers are transparent and we are open for capital investment support.

Our extensive research team takes care of the development and registration of veterinary pharmaceuticals throughout the world. Over the last few years we have completed several successful decentralised and centralised procedures in the European Union.

Our Pharmaceutical Laboratory can help you to develop useful, practical product formulations for soluble powders, sterile injectable solutions, suspensions and oral liquids for veterinary use. To ensure a reliable shelf life after production, stability studies in several types of packaging can also be conducted. Our GLP certified research facility can conduct safety and pharmacokinetic studies. The in-life phase of these studies will take place at our Research Farm where cows, calves, horses, pigs and/or poultry can be housed. Bio-analytical methods for detailed analysis of the samples collected at the Research Farm are developed and validated in our Biopharmaceutical Laboratory.



Your expectations can be met with our tailor-made services on the following production lines for antibiotics (including beta-lactam, penicillins and non-penicillins) and non-antibiotics:



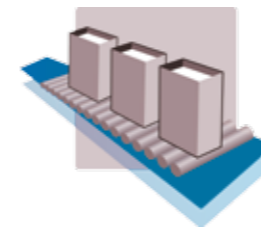
Injectables

- 100 to 2,000 L batches
- 10 to 500 ml packaging
- Glass and plastic vials
- Solutions and suspensions / emulsions



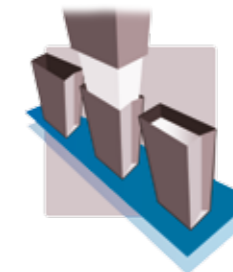
Oral solutions

- 500 to 5,000 L batches
- 100 ml to 25 L packaging
- Glass and plastic bottles or cans



Water soluble/dispersible powder

- 300 to 1,250 L batches
- 100 gram to 25 kg packaging
- Sachets, jars, drums and buckets



Medicated premixes

- 600 to 1,250 kg batches
- 1 to 25 kg packaging
- Bags, drums, buckets and boxes



All production lines can rely on:

Our laboratories:

- ✓ BFRL (BioPharmaceutical Research Laboratory)
- ✓ FRL (Pharmaceutical Research Laboratory)
- ✓ QC (Quality Control)
- ✓ Microbiology

Bio-analysis:

- ✓ Two Solid Phase Extraction (SPE) robots
- ✓ Two LC-MS systems, both using tandem (triple) quadrupole instruments
- ✓ One UPLC-MS system, using a tandem (triple) quadrupole instrument



What can you expect from us?

- ✓ Transparent calculations
- ✓ Long term relationship
- ✓ Short lead times / fast & clear communication / quick actions
- ✓ High quality assurance level
- ✓ High overall service level
- ✓ High flexibility and punctuality
- ✓ Over 40 years of expertise in production and research
- ✓ In-house printwork (digital press)
- ✓ Possible capital investment support