



Pet food



Aquafeed



Livestock

PRODUCT CATALOG

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01

About Empro

Protein Works – Transforming poultry by-products into high-value solutions

Empro is a Belgian biotech company with a clear mission: turning poultry industry by-products into high-quality protein ingredients that power the future of feed and food. Founded in 2015 and part of the Damaco Group, we operate from a fully dedicated facility in Dendermonde, where we combine scientific precision with industrial scale.



Through our patented, chemical-free hydrolysis processes, we unlock the hidden potential of poultry feathers and meat. We deliver digestible, functional, and traceable proteins for a wide range of applications in feed and beyond.

Circular thinking from day one

At Empro, sustainability is not an afterthought. It is our starting point. From raw material sourcing to process design, every decision is guided by the principles of circularity and resource efficiency.

We valorize poultry side streams that are no longer suitable for human consumption, such as feathers, bones, and meat. These are converted into high-quality, digestible proteins for feed, agro, and material applications.

By working exclusively with poultry by-products from certified suppliers, we avoid competition with human food and ensure full traceability of our inputs. This approach allows us to drastically reduce waste and emissions, while delivering consistent value for customers worldwide.



AT EMPRO, CIRCULARITY IS NOT A TREND — IT'S THE CORE OF HOW WE CREATE NEW BUILDING BLOCKS FROM WHAT NATURE DELIVERED.

— Vaast Vanoverschelde, CEO

One group — one origin.
Poultry at the core, innovation across the chain.

As part of the Damaco Group, Empro operates within an integrated ecosystem built around the valorisation of poultry by-products. Each company in the group plays a complementary role, turning side-streams into high-value solutions for different markets.

Damaco Group

A global supplier of poultry-based ingredients, specialised in mechanically deboned meat (MDM) and international trade in frozen food products.

Empro

Our production site in Belgium valorises poultry by-products that are no longer fit for human consumption, transforming them into high-quality proteins for feed, agro, renewable materials and cosmetics.

Stamagro

The R&D platform of the group, dedicated to developing customised peptide-based innovations through protein hydrolysis.

Damagro

Specializes in amino acid-based biostimulants for agriculture, supporting crop performance with functional protein formulations.

One raw material. Four specialised companies.
A fully circular, innovation-driven chain.



EACH COMPANY HAS ITS OWN ROLE, BUT IT'S THE PEOPLE AND THE COLLABORATION BETWEEN TEAMS THAT MAKE THIS CHAIN WORK.

— Pam Dewit,
HR, Project & Operations Manager

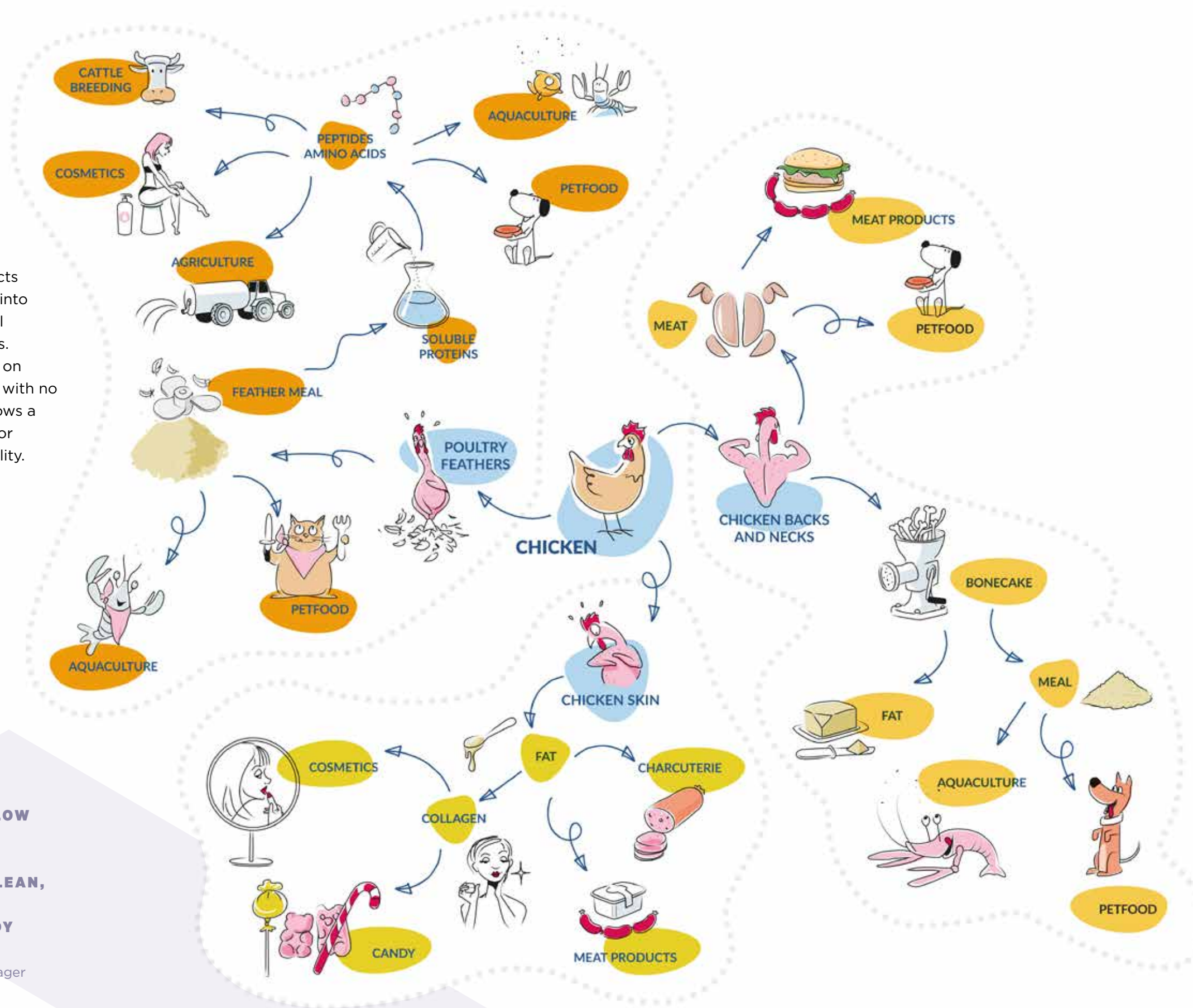
A connected chain
Each company adds value to poultry



02 How we work

From raw material to product

At Empro, we process poultry by-products such as feathers, meat, skins and bones into high-value protein ingredients for animal nutrition and agro-industrial applications. Our patented production processes rely on hydrothermal and enzymatic hydrolysis, with no use of chemicals. Each raw material follows a dedicated processing route, optimised for functionality, digestibility and sustainability.

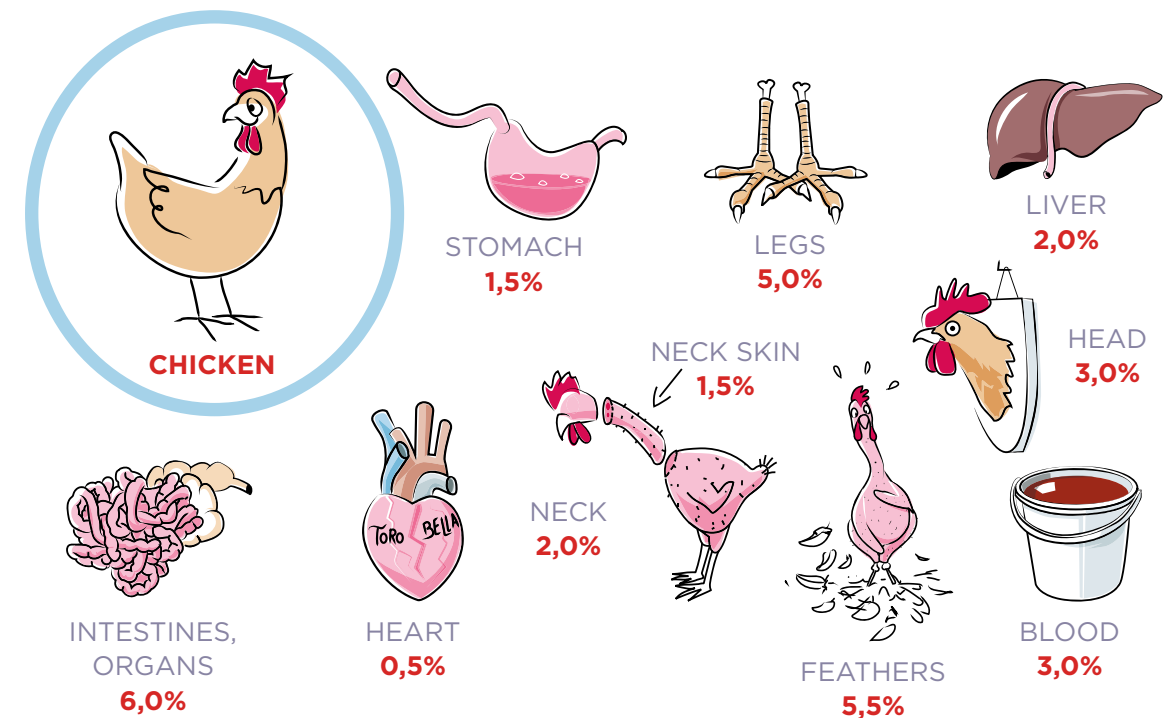


OUR IN-HOUSE TECHNOLOGIES ALLOW US TO VALORISE CHALLENGING RAW MATERIALS INTO CLEAN, DIGESTIBLE AND APPLICATION-READY PROTEINS

— Ceder Alloo, R&D Manager

Raw materials we valorise

We work with side-streams from poultry processing: feathers, meat, bones and skins. These raw materials are rich in proteins but require advanced processing to unlock their full potential.



Process routes tailored to each material

We apply a range of production methods tailored to each raw material and its intended end product, making full use of our state-of-the-art facility in Dendermonde.



Feathers

We hydrolyse feathers under high pressure and temperature to obtain digestible, functional proteins for feed and biostimulants. By adjusting process parameters and inputs, we control both digestibility and protein concentration, producing a broad portfolio of keratin-based ingredients in liquid and dry powder form with unique characteristics.



Meat & Bones

We process poultry meat and bones by drying, separating, hydrolyzing and turning them into high-protein meals and purified fats. This enables us to produce a broad range of pet food and aquafeed ingredients, available in both dry and liquid forms, with a valuable fatty acids profile and excellent taste.



Skin

We process skin by frying it into high-fat, high-protein ingredients with a naturally rich nutritional profile. This delivers excellent taste and high palatability, making these ingredients perfectly suited for premium pet food formulations.

03 Why Choose Empro?

Flexible protein expertise From high-volume ingredients to premium innovations

At Empro, we bring together the best of two worlds: a reliable supply of consistent, high-volume ingredients and a growing portfolio of advanced protein solutions for premium applications. Whether you're looking for cost-effective poultry meals or cutting-edge hydrolysates enriched with collagen type II - we offer both scalability and specialization.

Why leading producers choose Empro:

- Market-driven innovation aligned with evolving industry needs.
- Clear product segmentation from nutritional meals to bioactive peptides.
- Patented, chemical-free hydrolysis for high digestibility.
- Consistent, process-controlled quality.
- Designed for circularity with full poultry valorisation and minimal waste.
- Scientifically validated with research and data supporting every product we launch.

At Empro, **Protein Works**.
With purpose, precision and performance.



04 Markets we serve

Rooted in feed - reaching into the future

Empro produces high-quality poultry proteins and fats for a broad range of applications, using in-house developed processes and state-of-the-art technology. We serve the following sectors:

- **Animal feed (pet food, aquafeed and livestock)**
- **Agriculture**
- **Materials**
- **Cosmetics**

Core nutrition proteins

Reliable, high-volume ingredients derived from poultry meat, feathers and bones. These products are used in aquafeed, livestock and mainstream pet food applications, where digestibility and inclusion rates are key.

Functional proteins

Customised hydrolysates and specialty meals with specific functional or nutritional properties. These are ideal for high-end formulations in the premium pet food segment.

After ten years of continuous investment in research and development, Empro has become a trusted partner for customers in more than 50 countries—bringing together process expertise, product innovation and a strong commitment to sustainability.

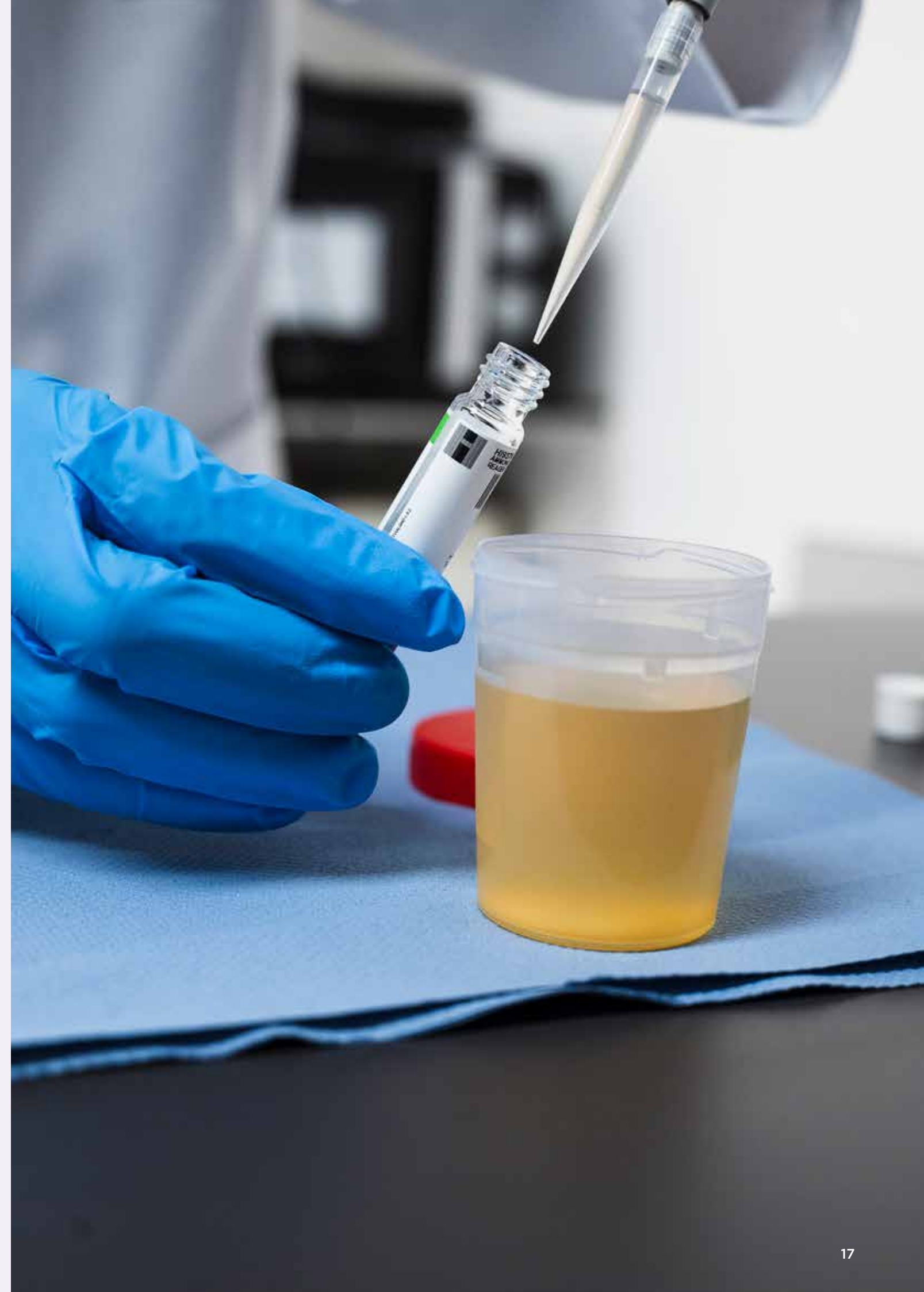
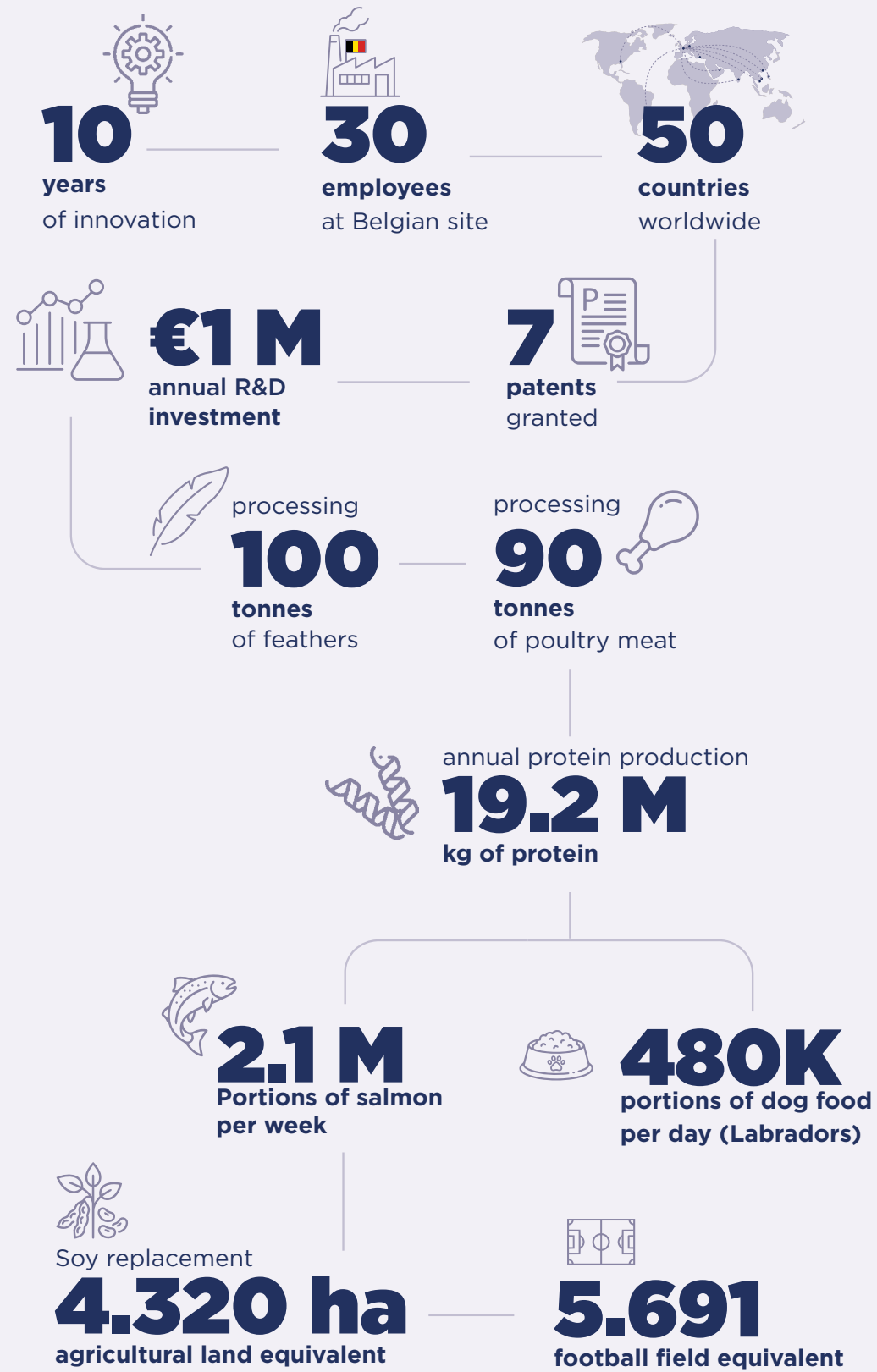


“

**DIFFERENT MARKETS,
DIFFERENT NEEDS.
OUR PRODUCT PORTFOLIO
IS BUILT TO MATCH THEM.**

— Leen De Jonghe
Marketing & Communication Manager

Empro in Numbers



05 Product overview

Pet food		
Em'Pet Hydrolysates	Powder	
Feather meal		
Prime Pet Pro Hydrolysates	Powder	
Meat hydrolysate		
Viva'Meat 60,65,70 Hydrolysates	Powder	
Poultry meal		
Em'Chicken Meat meals & oils	Powder	
Meat meal		
Em'Crisp Meat meals & oils	Powder	
Meat meal		
Crispy Wing Meal Meat meals & oils	Powder	
Poultry meat meal		
Crispy Duck Meat meals & oils	Powder	
Duck meat meal		
Em'Meat Meat meals & oils	Powder	
Meat and bone meal		
Emp'Oil Meat meals & oils	Liquid	
Poultry oil		
Turk'Oil Meat meals & oils	Liquid	
Turkey oil		
Duck'Oil Meat meals & oils	Liquid	
Duck oil		
Em'Duck Specialties	Powder	
Duck meal		
Em'Turko Specialties	Powder	
Turkey meat meal		
Prime Pet Gold Specialties	Powder	
Collagen type II		
Em'Broth Specialties	Powder/liquid	
Chicken broth		

Aquafeed		
Pepsol	Powder	
Spray-dried keratin hydrolysate		
Em'Paq	Powder	
Feather meal		
Poultry 50	Powder	
Meat and bone meal		
Viv'Aqua 60, 65, 70	Powder	
Poultry meal		

Livestock		
Procellum, Procellum Plus	Liquid	
Feather hydrolysate		
Em'Paq	Powder	
Feather meal		
Poultry 50	Powder	
Meat and bone meal		
Viv'Aqua 60, 65, 70	Powder	
Poultry meal		

 Specialty
  Palatant
  Protein energy source
  Claim

06 Products



Pet food

Hydrolysates

Em'Pet



Em'Pet is a keratin-rich protein ingredient for pet food, offering excellent nutritional and organoleptic properties.

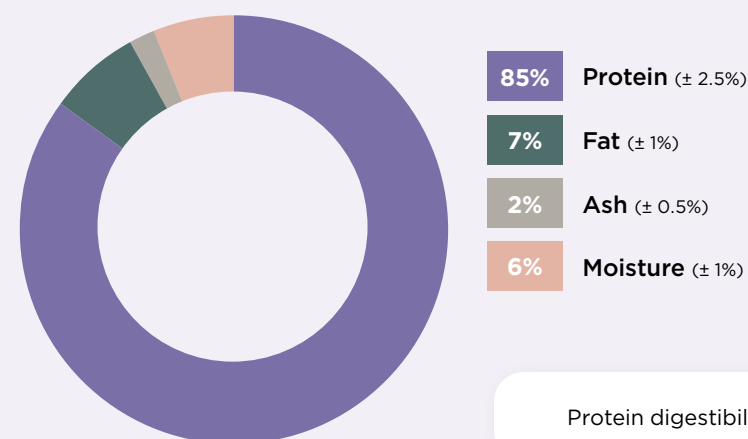
It combines high digestibility with extremely low ash content, making it a versatile, cost-effective alternative to traditional protein sources.

Its taste and aroma are highly appreciated by pets.

Key benefits:

- Exceptional digestibility
- High in protein
- Nutritional excellence
- Low CO₂ footprint production process

Nutrient composition:



Protein digestibility: >85%

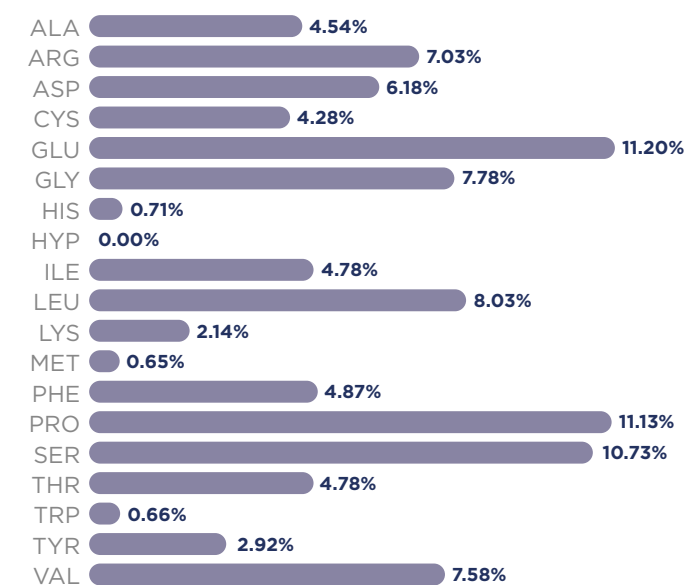
*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: feather meal
- Physical appearance: very fine powder
- Color: light brown
- Density: 600 to 700 g/L
- Taste/smell: typical (roasted, mild pungent, musky)
- Antioxidants upon request

Amino acid profile (% on protein basis)





Hydrolysates

Prime Pet Pro

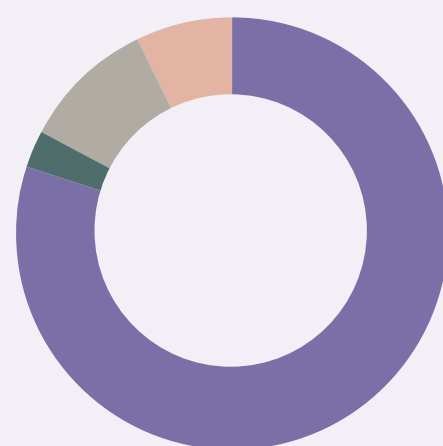


Prime Pet Pro is a premium poultry protein ingredient for pet food, delivering high protein content, excellent digestibility, and superior flavor and aroma, with hypoallergenic characteristics. It supports muscle development, vitality, and overall well-being in active and growing pets.

Key benefits:

- Meat-based
- Hypoallergenic
- High in collagen

Nutrient composition:



80%	Protein (± 2.5%)
3%	Fat (± 1%)
10%	Ash (± 0.5%)
7%	Moisture (± 1%)

Protein digestibility: >90%

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: poultry meat meal
- Physical appearance: powder
- Color: light brown
- Density: 400 to 500 g/L
- Peroxide Value: < 2 mEq O₂/kg
- Free Fatty Acids: < 2%
- Taste/smell: mild chicken
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ-tocopherol on demand.

Amino acid profile (% on protein basis)

ALA	6.71%
ARG	6.29%
ASP	8.90%
CYS	2.68%
GLU	13.61%
GLY	8.17%
HIS	0.66%
ILE	4.35%
LEU	7.36%
LYS	1.85%
MET	0.59%
PHE	3.97%
PRO	10.58%
SER	10.34%
THR	4.24%
TRP	0.43%
TYR	2.56%
VAL	6.70%



Hydrolysates

Viva'Meat

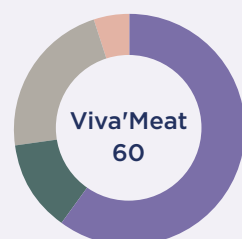


Viva'Meat is a highly digestible poultry protein ingredient for pet food, combining exceptional palatability with a balanced nutritional profile. It is available in three protein content options (60%, 65%, and 70%), offering formulators the flexibility to meet specific performance and cost requirements.

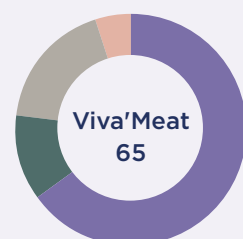
Key benefits:

- High digestibility
- Balanced protein source
- Made from fresh foodgrade poultry meat

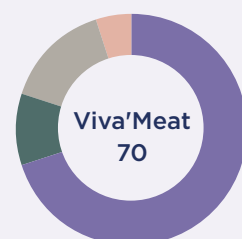
Nutrient composition:



60%	Protein (± 2.5%)
13%	Fat (± 1%)
22%	Ash (± 0.5%)
5%	Moisture (± 1%)



65%	Protein (± 2.5%)
12%	Fat (± 1%)
18%	Ash (± 0.5%)
5%	Moisture (± 1%)



70%	Protein (± 2.5%)
10%	Fat (± 1%)
15%	Ash (± 0.5%)
5%	Moisture (± 1%)

Digestibility: >90%

*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: poultry meal
- Physical appearance: powder
- Color: yellow - light brown
- Density: 600 to 700 g/L
- Taste/smell: mild chicken
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract on demand.

Amino acid profile (% on protein basis)

Viva'Meat 60

ALA	6.85%
ARG	7.21%
ASP	7.41%
CYS	1.64%
GLU	12.20%
GLY	11.97%
HIS	1.73%
HYP	3.49%
ILE	3.46%
LEU	6.35%
LYS	4.91%
MET	1.43%
PHE	4.57%
PRO	9.63%
SER	5.24%
THR	3.82%
TRP	0.68%
TYR	2.55%
VAL	4.82%

Viva'Meat 65

ALA	6.39%
ARG	7.18%
ASP	7.16%
CYS	2.17%
GLU	12.00%
GLY	11.13%
HIS	1.53%
HYP	2.80%
ILE	3.73%
LEU	6.69%
LYS	4.36%
MET	1.27%
PHE	4.64%
PRO	9.93%
SER	6.34%
THR	4.01%
TRP	0.68%
TYR	2.63%
VAL	5.37%

Viva'Meat 70

ALA	5.93%
ARG	7.14%
ASP	6.92%
CYS	2.70%
GLU	11.80%
GLY	10.30%
HIS	1.32%
HYP	2.10%
ILE	3.99%
LEU	7.02%
LYS	3.81%
MET	1.12%
PHE	4.69%
PRO	10.23%
SER	7.44%
THR	4.20%
TRP	0.67%
TYR	2.70%
VAL	5.92%



Meat meals & oils

Em'Chicken

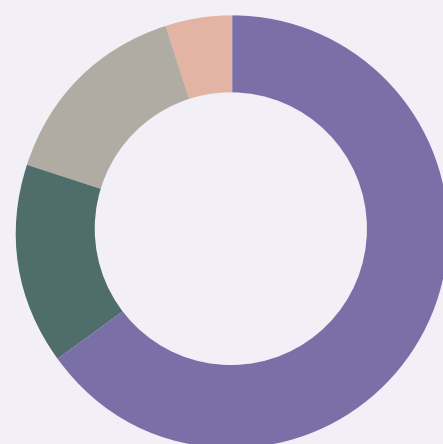


Em'Chicken is a premium poultry meat meal for pet food, made from fresh, food-grade chicken. It delivers exceptional palatability and nutritional excellence. The intense chicken flavor and aroma enhance product appeal. Its high collagen content ensures superior binding and strong, compact pellets after extrusion.

Key benefits:

- **Exceptional palatability**
- **Nutritional excellence**
- **Made from fresh foodgrade poultry meat**

Nutrient composition:



65% Protein (± 2.5%)
15% Fat (± 1%)
15% Ash (± 0.5%)
5% Moisture (± 1%)

Digestibility: **>90%**

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: poultry meat meal
- Physical appearance: powder
- Color: golden brown
- Density: 600 to 700 g/l
- Peroxide Value: < 2 mEq O₂/kg
- Free Fatty Acids: < 2%
- Taste/smell: intense chicken
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ-tocopherol on demand.

Amino acid profile (% on protein basis)

ALA	6.81%
ARG	6.83%
ASP	9.20%
CYS	0.77%
GLU	14.71%
GLY	10.12%
HIS	2.28%
HYP	2.61%
ILE	3.62%
LEU	6.89%
LYS	7.03%
MET	2.08%
PHE	4.03%
PRO	6.46%
SER	4.15%
THR	4.39%
TRP	0.85%
TYR	2.75%
VAL	4.42%



Meat meals & oils

Em'Crisp

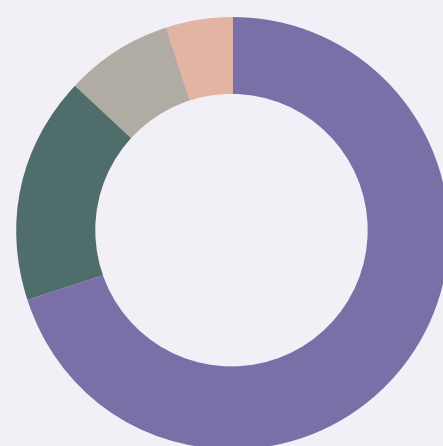


Em'Crisp is a high-protein poultry meat meal for pet food, made from fresh, food-grade poultry skin and meat. It is gently baked and dried to create a unique dry powder for premium pet food formulations. It delivers exceptional palatability, excellent nutritional performance, and superb binding.

Key benefits:

- High in protein
- Exceptional palatability
- Very low in ash
- High in collagen
- Made from fresh foodgrade poultry meat

Nutrient composition:



70%	Protein (± 2.5%)
17%	Fat (± 1%)
8%	Ash (± 0.5%)
5%	Moisture (± 1%)

Digestibility: >90%

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: poultry meat meal
- Physical appearance: powder
- Color: light brown
- Density: 600 to 700 g/l
- Peroxide Value: < 2 mEq O₂/kg
- Free Fatty Acids: < 2%
- Taste/smell: mild chicken
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ-tocopherol on demand.

Amino acid profile (% on protein basis)

ALA	7.33%
ARG	7.22%
ASP	7.82%
CYS	1.05%
GLU	13.09%
GLY	13.76%
HIS	1.98%
HYP	5.59%
ILE	3.08%
LEU	6.04%
LYS	5.74%
MET	1.98%
PHE	3.54%
PRO	7.56%
SER	3.61%
THR	3.41%
TRP	0.68%
TYR	2.40%
VAL	4.19%



Meat meals & oils

Crispy Wing Meal

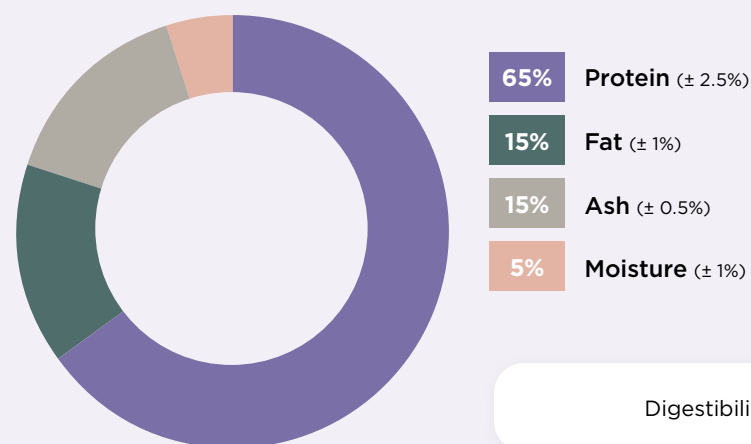


Crispy Wing Meal is a premium poultry meat meal for pet food, made from fresh, food-grade fried crispy chicken wings. It delivers exceptional palatability and nutritional excellence. The intense chicken flavor and aroma enhance product appeal. Its high collagen content ensures superior binding and strong, compact pellets after extrusion.

Key benefits:

- **Exceptional palatability**
- **Nutritional excellence**
- **Made from fresh foodgrade chicken wings**

Nutrient composition:



Digestibility: **>90%**

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: poultry meat meal
- Physical appearance: powder
- Color: golden brown
- Density: 600 to 700 g/L
- Peroxide Value: < 2 mEq O₂/kg
- Free Fatty Acids: < 2%
- Taste/smell: intense chicken
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ-tocopherol on demand.

Amino acid profile (% on protein basis)

ALA	6.81%
ARG	6.83%
ASP	9.20%
CYS	0.77%
GLU	14.71%
GLY	10.12%
HIS	2.28%
HYP	2.61%
ILE	3.62%
LEU	6.89%
LYS	7.03%
MET	2.08%
PHE	4.03%
PRO	6.46%
SER	4.15%
THR	4.39%
TRP	0.85%
TYR	2.75%
VAL	4.42%



Meat meals & oils

Crispy Duck

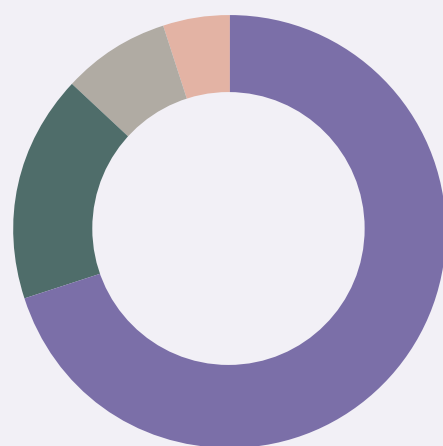


Crispy Duck is a high-protein duck meat meal for pet food, made from fresh, food-grade duck skin and meat. It is gently baked and dried to create a unique dry powder for premium pet food formulations. It delivers exceptional palatability, excellent nutritional performance, and superior binding.

Key benefits:

- High in protein
- Exceptional palatability
- Very low in ash
- High in collagen
- Made from fresh foodgrade duck meat

Nutrient composition:



70% Protein ($\pm 2.5\%$)

17% Fat ($\pm 1\%$)

8% Ash ($\pm 0.5\%$)

5% Moisture ($\pm 1\%$)

Digestibility: **>90%**

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on $n > 30$ analyses



Physical characteristics:

- Product type: Duck meat meal
- Physical appearance: powder
- Color: light brown
- Density: 600 to 700 g/L
- Peroxide Value: < 2 mEq O₂/kg
- Free Fatty Acids: $< 2\%$
- Taste/smell: roasted duck
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ -tocopherol on demand.

Amino acid profile (% on protein basis)

ALA	7.33%
ARG	7.22%
ASP	7.82%
CYS	1.05%
GLU	13.09%
GLY	13.76%
HIS	1.98%
HYP	5.59%
ILE	3.08%
LEU	6.04%
LYS	5.74%
MET	1.98%
PHE	3.54%
PRO	7.56%
SER	3.61%
THR	3.41%
TRP	0.68%
TYR	2.40%
VAL	4.19%



Meat meals & oils

Em'Meat

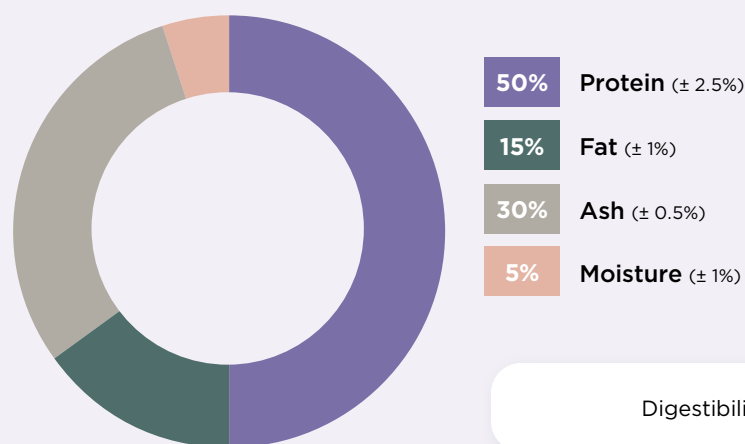


Em'Meat is a balanced poultry protein ingredient for pet food, combining high digestibility with exceptional palatability. It provides excellent nutritional performance and it is a sustainable protein source for premium formulations.

Key benefits:

- **Exceptional palatability**
- **High digestibility**
- **Made from fresh foodgrade poultry meat**

Nutrient composition:



Digestibility: **>90%**

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: poultry meat meal
- Physical appearance: powder
- Color: light brown
- Density: 600 to 700 g/l
- Peroxide Value: < 2 mEq O₂/kg
- Free Fatty Acids: < 2%
- Taste/smell: roasted chicken
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ-tocopherol on demand.

Amino acid profile (% on protein basis)

ALA	7.62%
ARG	7.28%
ASP	7.82%
CYS	0.76%
GLU	12.54%
GLY	13.37%
HIS	2.07%
HYP	4.66%
ILE	3.03%
LEU	5.79%
LYS	5.84%
MET	1.69%
PHE	4.48%
PRO	9.13%
SER	3.41%
THR	3.50%
TRP	0.69%
TYR	2.43%
VAL	3.90%



Meat meals & oils

Emp'Oil

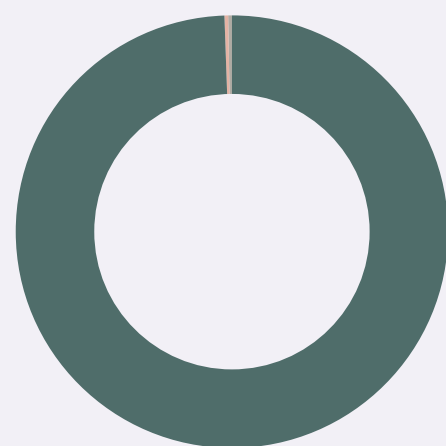


Emp'Oil is a premium poultry oil that enhances palatability while delivering high-energy nutrition. Rich in omega-3 and omega-6 fatty acids, it supports healthy skin, shiny coats and joint health, while its natural chicken aroma significantly improves feed acceptance. Low free fatty acid levels ensure excellent stability and shelf life.

Key benefits:

- Flavor enhancer
- Low FFA
- Rich in omega fatty acids
- Dry rendering delivers high palatability

Nutrient composition:



>99.5% Fat

<0.2 % Ash

<0.3% Moisture

Metabolisable energy:
±35 MJ/kg = 8375 kcal

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: poultry oil
- Physical appearance: viscous liquid
- Color: yellow-brown
- Density: 900 g/L
- Peroxide Value: < 2 mEq O₂/kg
- Free Fatty Acids: < 2%
- Taste/smell: mild chicken
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ-tocopherol on demand.

Fatty acid profile



43.56%

MUFA
(monounsaturated FA)

Palmitoleic Acid 16:14.76%
Oleic Acid 18:1 n936.36%
Others3%

30.56%

PUFA
(polyunsaturated)

Linoleic Acid 18:2 n6 (omega 6).... 22.69%
Linolenic Acid 18:3 n3 (omega 3)..... 2.10%
Ratio omega 6/omega 310.80

25.30%

SFA
(saturated FA)

Lauric Acid 12:01.57%
Myristic Acid 14:01.33%
Palmitic Acid 16:022.15%
Stearic Acid 18:05.34%



Meat meals & oils

Turk'Oil



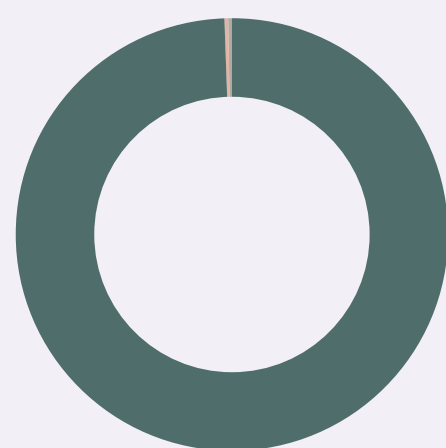
Turk'Oil is a high-quality turkey oil derived from carefully selected turkey meat cuts (food-grade origin). It is characterized by its rich polyunsaturated fatty acid profile, particularly omega-6.

Turk'Oil supports skin condition, coat quality and metabolic functions, while its balanced aroma ensures reliable feed acceptance across a wide range of formulations.

Key benefits:

- Rich in omega-6 fatty acids (skin & coat)
- Supports targeted nutrition
- Balanced aroma for reliable feed intake
- High PUFA content for functional formulations

Nutrient composition:



>99% Fat
<0.2 % Ash
<0.5% Moisture

Metabolisable energy:
~34.5-35.5 MJ/kg

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: turkey oil
- Physical appearance: semi-liquid to viscous liquid
- Color: yellow to yellow-brown
- Density: ~900 – 915 g/L
- Peroxide Value: < 5 mEq O₂/kg
- Free Fatty Acids: 2 - 5%
- Taste/smell: mild turkey
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ-tocopherol on demand.

Fatty acid profile



~35-50%

MUFA
(monounsaturated FA)

Palmitoleic Acid 16:1 -4-6%
Oleic Acid (C18:1 n9)..... -30-38%

~20-30%

PUFA
(polyunsaturated)

Linoleic Acid (C18:2 n6) -20-26%
Linolenic Acid (C18:3 n3)..... -1-3%
Ratio omega 6/omega 3 -12-18%

~27-32%

SFA
(saturated FA)

Lauric Acid (C12:0) <1%
Myristic Acid (C14:0) <1%
Palmitic Acid (C16:0) -20-24%



Meat meals & oils

Duck'Oil



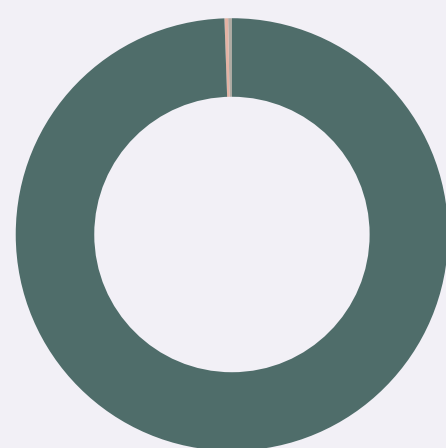
Duck'Oil is produced from fresh, food-grade duck raw materials, resulting in a rich and distinctive aroma that significantly improves feed intake.

With its naturally high oleic acid content, it delivers excellent oxidative stability and a steady energy release, supporting consistent performance in premium pet food formulations.

Key benefits:

- Strong palatability booster (rich aroma)
- High oxidative stability
- Stable, consistent energy release
- Premium fat source

Nutrient composition:



>99% Fat
<0.2 % Ash
<0.5% Moisture

Metabolisable energy:
~34.5-35.5 MJ/kg

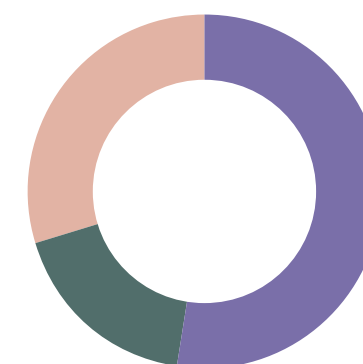
*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: duck oil
- Physical appearance: semi-liquid to liquid
- Color: pale to golden yellow
- Density: ~900 – 920 g/L
- Peroxide Value: < 5 mEq O₂/kg
- Free Fatty Acids: 2 - 5%
- Taste/smell: strong/rich aroma
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ-tocopherol on demand.

Fatty acid profile



~45-55%

MUFA
(monounsaturated FA)

Palmitoleic Acid (C16:1) -20-24%
Oleic Acid (C18:1 n7) -45-52%

~12-22%

PUFA
(polyunsaturated)

Linoleic Acid (C18:2 n6) -10-15%
Linolenic Acid (C18:3 n3) <2%
Ratio omega 6/omega 3 -10-20%

~25-30%

SFA
(saturated FA)

Lauric Acid (C12:0) <1%
Myristic Acid (C14:0) <1%
Palmitic Acid (C16:0) -20-24%



Specialties

Em'Duck



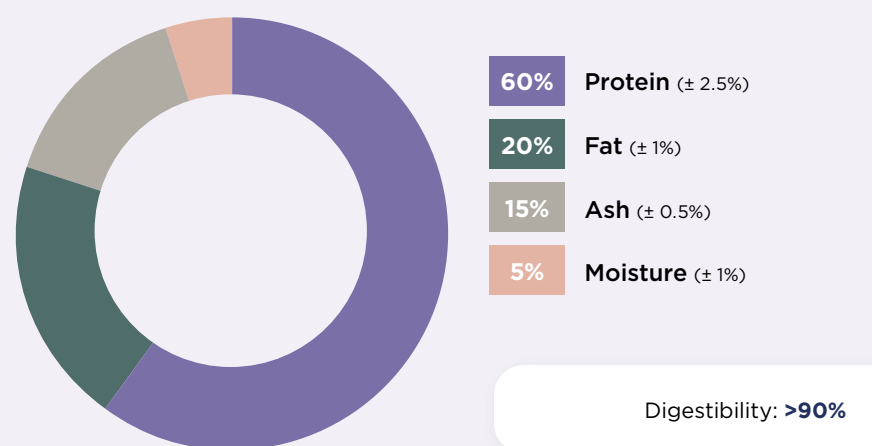
Em'Duck is a high-quality duck meal designed for use in premium dog and cat food formulations. Made exclusively from duck viscera sourced from a dedicated slaughterhouse in the Veluwe region (Netherlands). A specialized production line ensures consistent purity and nutritional value.

Its single-species origin and Dutch sourcing provide strong support for transparent labeling and premium positioning. EM'Duck delivers both protein and a unique flavor profile, making it ideal for high-end and limited-ingredient pet food applications.

Key benefits:

- Pure duck
- Premium quality

Nutrient composition:



*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: duck meal
- Physical appearance: powder
- Color: dark orange - brown
- Density: 600 to 700 g/L
- Peroxide Value: < 2 mEq O₂/kg
- Free Fatty Acids: < 10%
- Taste/smell: duck
- Natural antioxidants: rosemary extract, δ-tocopherol, citric acid



Specialties

Em'Turko



Em'Turko is a premium turkey meat meal developed for high-quality pet food formulations.

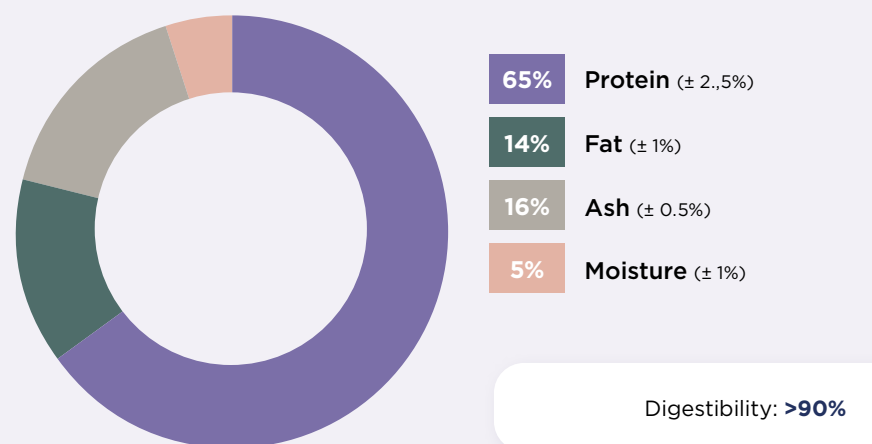
Produced from processed chilled and fresh turkey (100% pure meat and skins), it delivers excellent digestibility, outstanding palatability, and a naturally rich flavor profile.

Thanks to its high protein content and functional collagen fraction, Em'Turko is a healthy and versatile protein source, ideal for premium and limited-ingredient pet food applications.

Key benefits:

- Pure turkey
- Outstanding palatability and aroma

Nutrient composition:



*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: turkey meat meal
- Physical appearance: brown fine powder
- Color: light golden brown
- Density: 600 to 700 g/L
- Peroxide Value: < 2 mEq O₂/kg
- Free Fatty Acids: < 2%
- Taste/smell: savoury turkey
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid.

Amino acid profile ((%, on protein basis)

ALA	7.14%
ARG	7.07%
ASP	7.93%
CYS	0.91%
GLU	12.66%
GLY	13.42%
HIS	1.89%
HYP	5.33%
ILE	3.29%
LEU	6.15%
LYS	6.00%
MET	1.83%
PHE	3.65%
PRO	7.73%
SER	4.08%
THR	3.49%
TRP	0.65%
TYR	2.48%
VAL	4.29%



Specialties

Prime Pet Gold

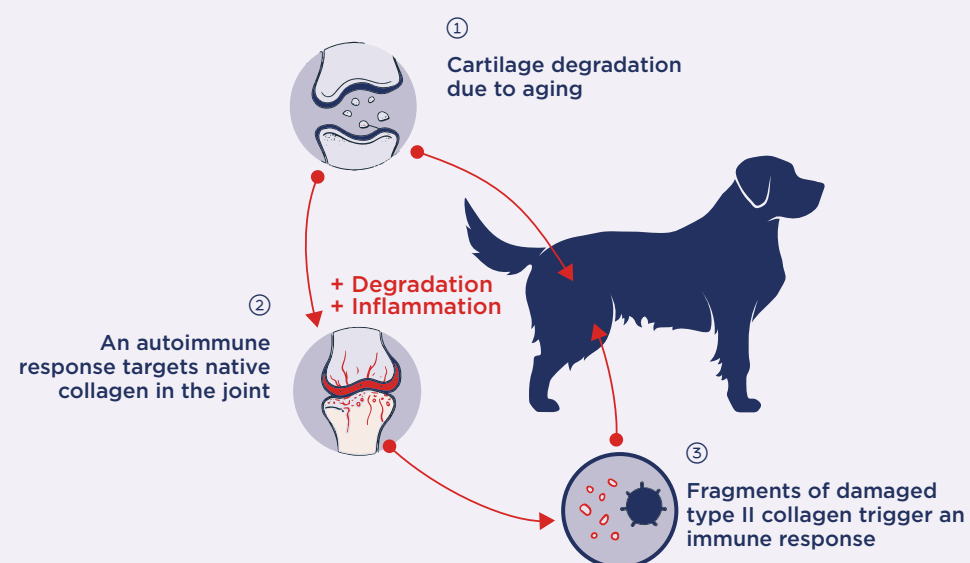


Prime Pet Gold is an exclusive Collagen Type II ingredient developed for use in premium cat and dog food. It brings distinct added value to high-end formulations by combining superior functional benefits with clean-label sourcing. The ingredient is obtained from poultry cartilage, processed via a controlled and patented enzymatic hydrolysis to preserve the natural structure of undenatured collagen type II which is the essential protein responsible for cartilage strength and flexibility. Designed to support joint health, mobility and overall vitality, Prime Pet Gold is ideal for active or aging pets and is particularly suited for brands that seek to differentiate through performance and quality.

Key benefits:

- High content undenatured collagen II
- Joint health & anti-inflammatory action
- Improves mobility & vitality

Pathogenesis of joint and cartilage loss in dogs:



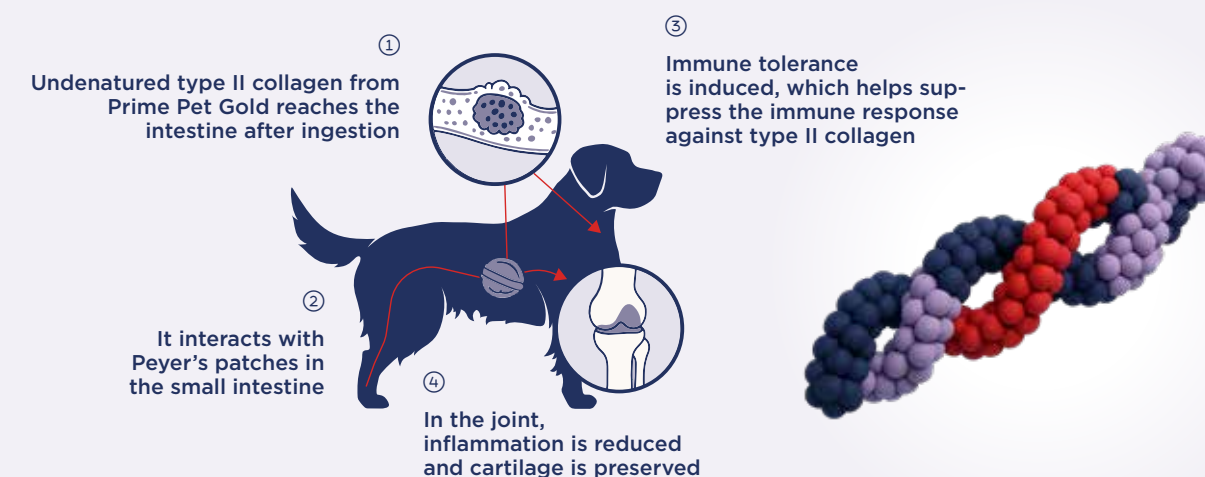
Physical characteristics:

- Product type: Undenatured Collagen type II inconsistent
- Physical appearance: powder
- Color: white-light yellow
- Density: 400 to 500 g/L
- Taste/smell: subtle chicken broth aroma

Nutrient composition:

- Protein content: minimum 75%
- Undenatured Collagen Type II: minimum 5%
- Moisture content: 5 %

How undenatured collagen type II supports joint health in dogs:





Specialties

Em'Broth

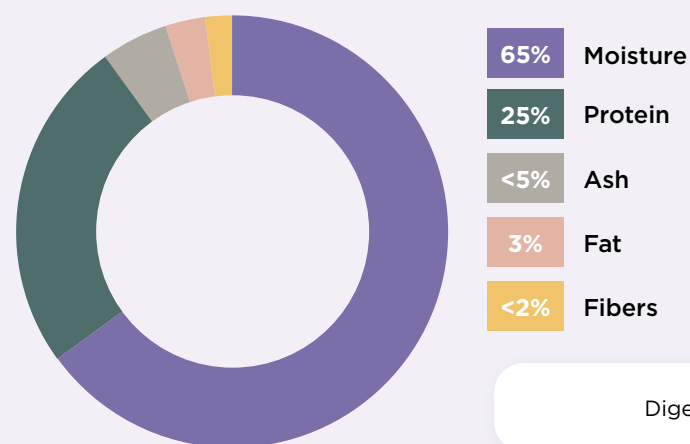


Em'Broth is a premium chicken broth for pet food, combining a high protein content with a rich, natural taste. It enhances palatability and intensifies flavor profiles, while supporting joint health. Available in both liquid and powder form, it offers versatile application in a wide range of pet food formulations.

Key benefits:

- Meat-based
- High in collagen
- Excellent in flavour
- Excellent pellet binding properties

Nutrient composition:



Digestibility: >90%

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: poultry broth
- Physical appearance: liquid / powder
- Color: dark brown
- Density: 1.1 kg/L
- Taste/smell: baked/roasted chicken, chicken broth
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ -tocopherol on demand

Amino acid profile (% on protein basis)

ALA	8.90%
ARG	6.60%
ASP	7.60%
CYS	0.6%
GLU	13.20%
GLY	12.90%
HIS	2.20%
HYP	5.40%
ILE	3.50%
LEU	5.80%
LYS	6.70%
MET	1.80%
ORN	0.50%
PHE	3.30%
PRO	8.20%
SER	2.80%
THR	2.90%
TRP	0.60%
TYR	1.80%
VAL	4.60%



Specialties

Tailor-made formulations

We develop custom formulations, even for small batches.

Share your specifications (e.g., target digestibility/solubility, sensory profile, labeling needs), and we will source and manufacture in line with your specifications.

Options include free-range and organic streams, as well as origin- or breed-specific poultry (e.g., Poulet de Bresse), quail, guinea fowl, or pigeon.

Contact us to discuss feasibility and lead times.





Pepsol

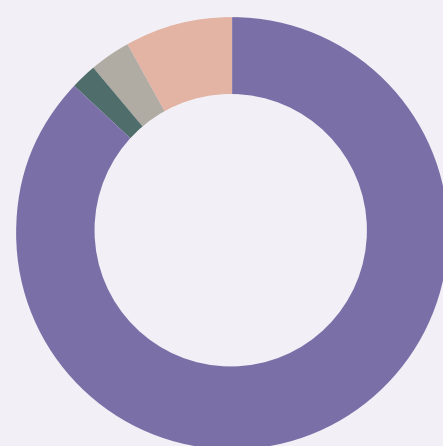


Pepsol is a premium spray-dried feather hydrolysate for aquafeed. It combines an ultra-high protein content with strong attractant properties and excellent solubility. Pepsol improves pellet binding, palatability, and feed intake, making it an effective alternative to fishmeal in aquatic diets.

Key benefits:

- Ultra-high protein
- Attractant
- Excellent binding properties

Nutrient composition:



>87%	Protein (± 2.5%)
2%	Fat (± 1%)
3%	Ash (± 0.5%)
<8%	Moisture (± 1%)

Digestibility: >95%

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



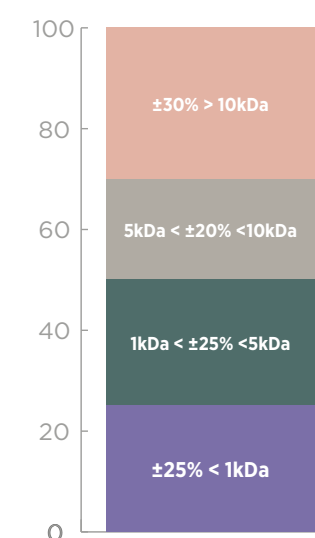
Physical characteristics:

- Product type: spray-dried soluble keratin hydrolysate
- Physical appearance: very fine powder
- Color: light yellow
- Density: 0.3 kg/L

Amino acid profile (% , on protein basis)

ALA	6.06%
ARG	6.27%
ASP	8.04%
CYS	2.21%
GLU	13.90%
GLY	9.21%
HIS	0.85%
ILE	4.14%
LEU	7.05%
LYS	2.59%
MET	0.86%
PHE	3.17%
PRO	10.20%
SER	9.83%
THR	4.32%
TRP	0.41%
TYR	2.39%
VAL	6.34%

Molecular weight





Aquafeed

Livestock

Em'Paq



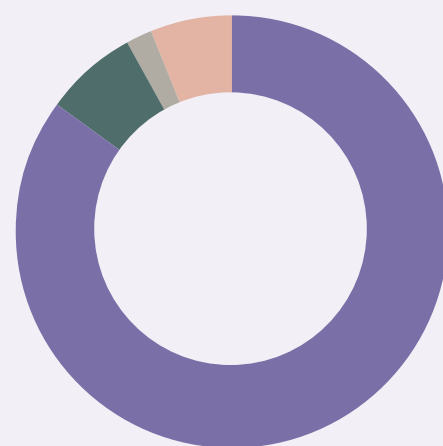
Em'Paq is a keratin-rich protein ingredient for aquafeed, offering excellent nutritional and functional properties. It combines high digestibility with extremely low ash content, making it a versatile and cost-effective alternative to traditional protein sources.

Em'Paq enables up to 10% fishmeal reduction in aquadiets without affecting growth performance or feed conversion.

Key benefits:

- Exceptional digestibility
- High in protein
- Nutritional excellence
- Low CO₂ footprint production process

Nutrient composition:



85% Protein (± 2.5%)
7% Fat (± 1%)
2% Ash (± 0.5%)
6% Moisture (± 1%)

Digestibility: **>85%**

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



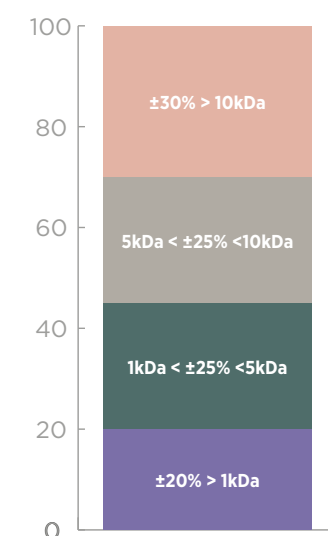
Physical characteristics:

- Product type: feather meal
- Physical appearance: very fine powder
- Color: light brown
- Density: 600 to 700 g/L
- Taste/smell: typical (roasted, mild pungent, musky)
- Antioxidants: adjustable upon request
- Peroxide Value: < 5 mEq O₂/kg fat
- Free Fatty Acids: < 15% as oleic acid

Amino acid profile (% on protein basis)

ALA	4.54%
ARG	7.03%
ASP	6.18%
CYS	4.28%
GLU	11.20%
GLY	7.78%
HIS	0.71%
HYP	0.00%
ILE	4.78%
LEU	8.03%
LYS	2.14%
MET	0.65%
PHE	4.87%
PRO	11.13%
SER	10.73%
THR	4.78%
TRP	0.66%
TYR	2.92%
VAL	7.58%

Molecular weight





Aquafeed

Livestock

Poultry 50

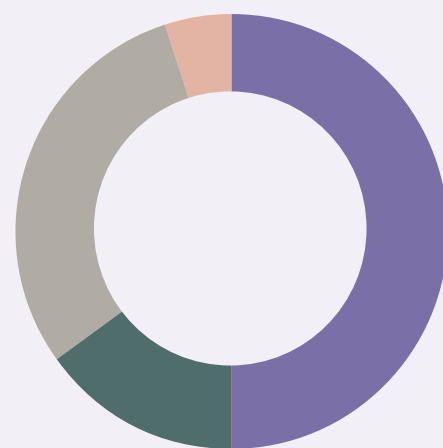


Poultry 50 is a balanced poultry protein ingredient for aquafeed and livestock nutrition. It combines high digestibility with excellent nutritional performance, making it a reliable and sustainable protein source for modern feed formulations. Poultry 50 supports efficient feed conversion and can partially replace fishmeal in aquadiets.

Key benefits:

- High digestibility
- Balanced protein source

Nutrient composition:



>50%	Protein (± 2.5%)
15%	Fat (± 1%)
30%	Ash (± 0.5%)
5%	Moisture (± 1%)

Digestibility: >90%

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: poultry meal
- Physical appearance: powder
- Color: light brown
- Density: 600 to 700 g/L
- Peroxide Value: < 2 mEq O₂/kg
- Free Fatty Acids: < 2%
- Taste/smell: roasted chicken
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ-tocopherol on demand

Amino acid profile (% on protein basis)

ALA	7.62%
ARG	7.28%
ASP	7.82%
CYS	0.76%
GLU	12.54%
GLY	13.37%
HIS	2.07%
HYP	4.66%
ILE	3.03%
LEU	5.79%
LYS	5.84%
MET	1.69%
PHE	4.48%
PRO	9.13%
SER	3.41%
THR	3.50%
TRP	0.69%
TYR	2.43%
VAL	3.90%



Aquafeed

Livestock

Viv'Aqua

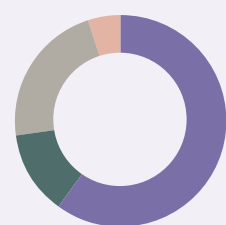


Viv'Aqua is a highly digestible poultry protein ingredient for aquafeed and livestock nutrition. It offers a balanced nutritional profile and is available in three protein levels (60%, 65%, and 70%), giving formulators the flexibility to meet specific performance and cost requirements across different feed applications.

Key benefits:

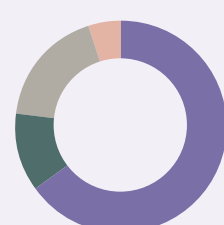
- High digestibility
- Balanced protein source

Nutrient composition:



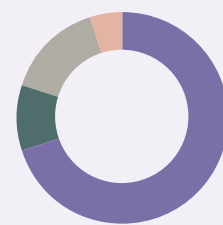
Viv'Aqua 60

60%	Protein (± 2.5%)
13%	Fat (± 1%)
22%	Ash (± 0.5%)
5%	Moisture (± 1%)



Viv'Aqua 65

65%	Protein (± 2.5%)
12%	Fat (± 1%)
18%	Ash (± 0.5%)
5%	Moisture (± 1%)



Viv'Aqua 70

70%	Protein (± 2.5%)
10%	Fat (± 1%)
15%	Ash (± 0.5%)
5%	Moisture (± 1%)

Digestibility: >90%

*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
*All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: poultry meal
- Physical appearance: powder
- Color: yellow - light brown
- Density: 600 to 700 g/L
- Peroxide Value: < 2 mEq O₂/kg
- Free Fatty Acids: < 2%
- Taste/smell: mild chicken
- Antioxidants: BHT, BHA, PG (propyl gallate) and citric acid. Rosemary extract and δ-tocopherol on demand

Amino acid profile (%. on protein basis)

Viv'Aqua 60

ALA	6.85%
ARG	7.21%
ASP	7.41%
CYS	1.64%
GLU	12.20%
GLY	11.97%
HIS	1.73%
HYP	3.49%
ILE	3.46%
LEU	6.35%
LYS	4.91%
MET	1.43%
PHE	4.57%
PRO	9.63%
SER	5.24%
THR	3.82%
TRP	0.68%
TYR	2.55%
VAL	4.82%

Viv'Aqua 65

ALA	6.39%
ARG	7.18%
ASP	7.16%
CYS	2.17%
GLU	12.00%
GLY	11.13%
HIS	1.53%
HYP	2.80%
ILE	3.73%
LEU	6.69%
LYS	4.36%
MET	1.27%
PHE	4.64%
PRO	9.93%
SER	6.34%
THR	4.01%
TRP	0.68%
TYR	2.63%
VAL	5.37%

Viv'Aqua 70

ALA	5.93%
ARG	7.14%
ASP	6.92%
CYS	2.70%
GLU	11.80%
GLY	10.30%
HIS	1.32%
HYP	2.10%
ILE	3.99%
LEU	7.02%
LYS	3.81%
MET	1.12%
PHE	4.69%
PRO	10.23%
SER	7.44%
THR	4.20%
TRP	0.67%
TYR	2.70%
VAL	5.92%

Pro'Cellum

This hydrolysate can be concentrated to the required dry-matter level for direct use in wet feed. Because it is extensively hydrolysed, the product offers high digestibility and protein quality with a bioavailable amino-acid profile and controlled digestibility to support porcine nutritional needs. Its excellent mixability and processing stability make it easy to incorporate into premixes and grower/finisher diets while maintaining consistent performance.

Key benefits:

→ High digestibility and solubility

→ Savoury attractant and palatability enhancer

→ Sustainable alternative to soy derivatives

Pro'Cellum Plus

Procellum Plus is the optimised version of Procellum, developed for improved stability, extended shelf life and a refined odour profile, enhancing feed palatability and making it particularly suitable for demanding livestock applications, especially in pig nutrition

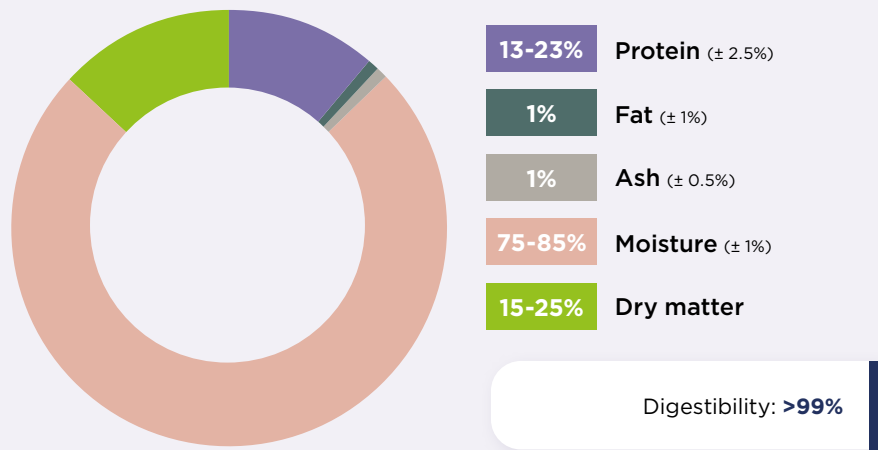
Key benefits:

→ Refined odour profile, improving feed attractiveness for pigs

→ Enhanced palatability in practical feeding conditions

→ Improved stability and longer shelf life

Nutrient composition:



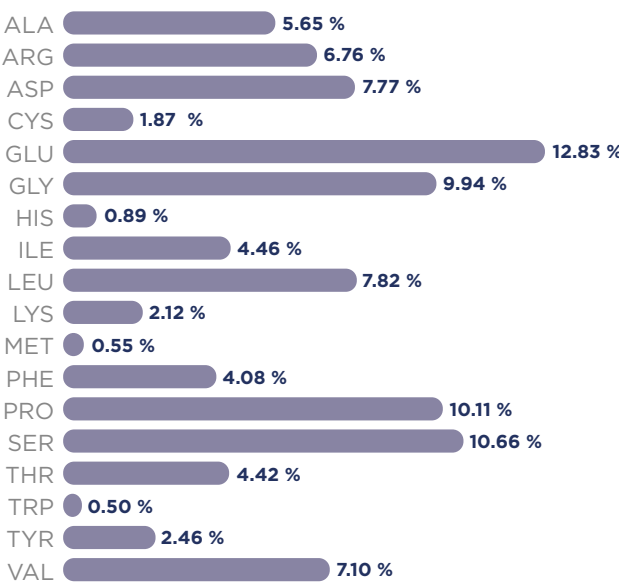
*Protein digestibility based on the 0.02% pepsin ISO 6655:1997
 *All product compositions are based on n > 30 analyses



Physical characteristics:

- Product type: soluble keratin hydrolysate
- Physical appearance: liquid
- Color: yellow light brown
- Density: 1.0 to 1.1 kg /L

Amino acid profile (% , on protein basis)



Quality & Safety

Quality assurance & safety

At Empro, quality and safety are no afterthought but the foundation of everything we do. Our Dendermonde site is a **dedicated poultry** facility processing Category 3 poultry by-products only, which reduces the risk of cross-species contamination and strengthens end-to-end traceability. From intake to delivery, our Quality Management System ensures compliance, consistency and confidence for customers worldwide.

Certified Quality System

Empro's quality and safety are not just based on internal systems — they are backed by official recognition and independent verification.



FAVV

(Belgian Food Safety Authority): approves our operations as a Category 3 processor, carries out regular inspections and sampling, and validates export certificates.



OVAM (Flemish Waste

& Materials Agency): grants our permits as a recognized processor and monitors our compliance with environmental and circular economy standards.



FCA compliance

Fully FCA certified under OVOCOM, with mutual recognition of GMP+ and QS, ensuring acceptance across global markets.



SecureFeed

Our products are accepted and trusted in the Dutch feed chain. Backed by Empro's HACCP system and validated through SecureFeed audits.

Together, these recognitions prove that Empro works to the **highest standards of safety, traceability and environmental responsibility.**



QUALITY AT EMPRO MEANS CONTROL AT EVERY STEP — FROM RAW MATERIAL INTAKE TO FINAL BATCH RELEASE.

— Forkwa Fombong
PhD, Quality Manager

HACCP & Risk Management



Our HACCP Food & Safety management plan is reviewed annually and validated by independent auditors. It identifies and controls critical points across the process: Raw material intake: visual and temperature checks, batch registration, traceability link to slaughterhouses.

- **Processing:** validated hydrolysis, drying, cooking and fat separation conditions.
- **Microbiological safety:** daily third-party monitoring backed up by in-house verification.
- **Packaging & storage:** clean and controlled areas with a solid FIFO (First In, First Out) implementation system



Sampling, Testing & Traceability

Every production batch and dispatched batch is sampled and tested according to a HACCP analysis plan:

→ Microbiology:

- Salmonella: absent in 25 g
- Enterobacteriaceae: < 10 CFU/g
- Molds: < 100 CFU/g
- Aerobic Count: < 1,000 CFU/g
- Other microbial parameters on request

→ Chemistry: routine analyses performed on dry meals and solubles for:

- Moisture
- Protein
- Fat/oils
- Ash
- Peroxide value
- Free fatty acids
- Minerals (Calcium, Phosphorus) and trace elements (Chromium VI, Cobalt, ...)
- Other chemical parameters on request

→ Contaminants: regular screening for:

- Dioxins and PCB's
- Heavy metals
- Pesticides
- Mycotoxins
- Antibiotics
- Other contaminant parameters on request



All results are stored in our database on our in-house servers and reviewed by our Quality team. Out-of-spec findings trigger corrective actions and root-cause investigations.

Internal & external laboratories

External (Eurofins, NORMEC, SGS, ECCA): daily microbiological tests (Enterobacteriaceae, Salmonella rapid), FFA and PV in fats, as well as extended analysis (amino acids, vitamins, dioxins/PCBs, mycotoxins). In-house daily control on moisture, pH and compositional analyses.

Traceability & documentation

Every lot is fully traceable from raw material intake to final delivery, with retention samples stored under controlled conditions.

Technical Data Sheets, Certificates of Analysis, and COO are issued with every shipment.

Hygiene & safety culture

Operators receive continuous training in hygiene, cleaning, and safety procedures. Production and storage facilities are subject to strict cleaning schedules, pest control programs, and environmental monitoring (including odor, wastewater, and emissions).

Storage & handling

All products are packed in clean, dedicated packaging and should be stored in a cool, dry and dark place devoted to preserve quality. FIFO rotation is mandatory. Detailed handling instructions and shelf-life guidance are available in product documentation.

08 Export, logistics and packaging

Global reach, local sourcing

Empro sources its raw materials locally from certified poultry processors in Belgium and neighbouring countries. Finished products are delivered to customers worldwide.

Packaging options

Empro products are available in bulk or big bags up to 1500 kg. Samples can be sent upon request.



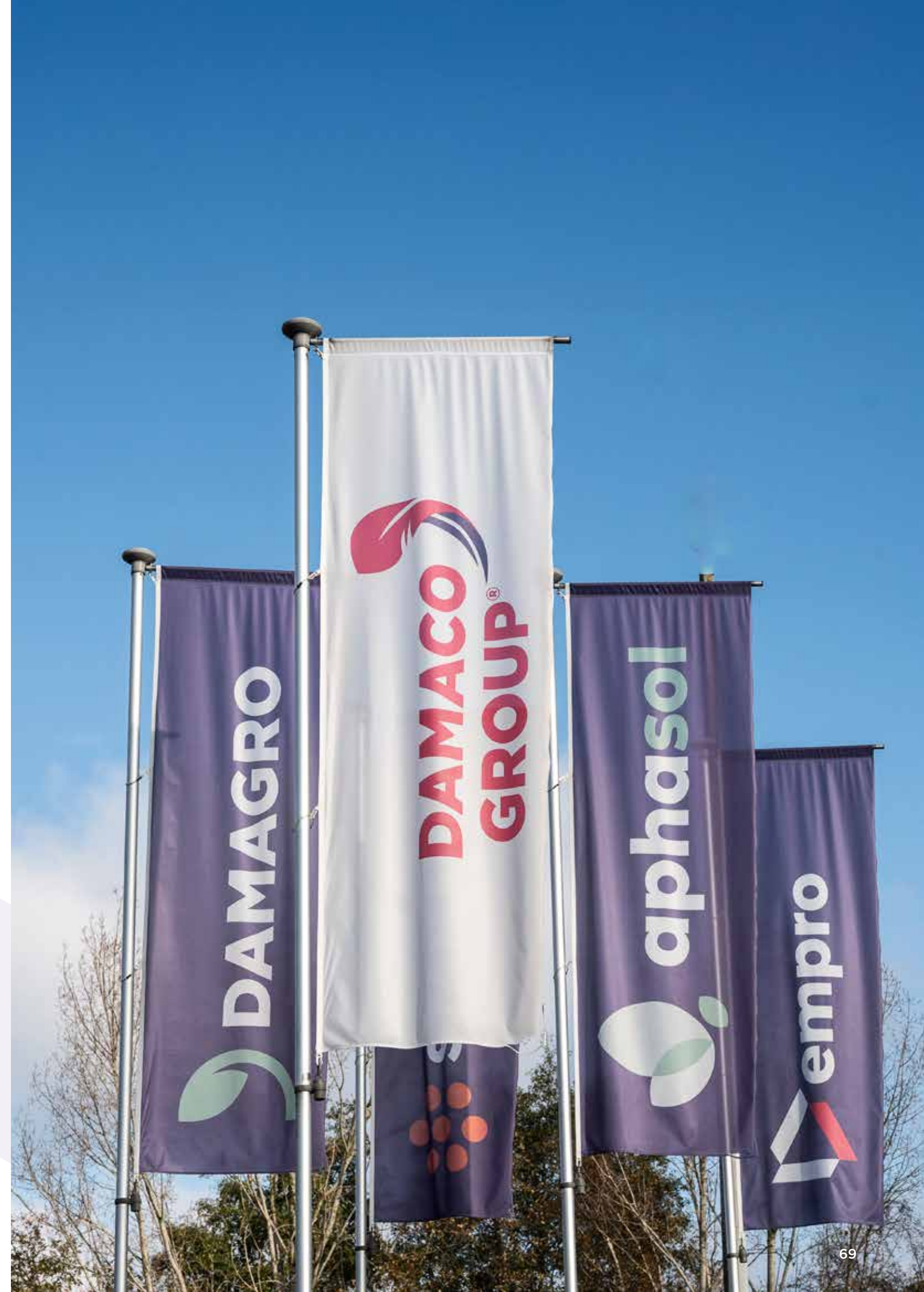
Tailor-made solutions

- **Mixed containers:** combine multiple products in one shipment.
- **Custom packaging:** for example specific pack sizes, private-label artwork, multilingual labels and palletization according to customer specifications.
- **Positive release:** batches are released only after independent laboratory analysis confirms compliance with your agreed specifications.



**EVERY SHIPMENT IS
DIFFERENT, AND THAT'S
EXACTLY HOW WE
APPROACH LOGISTICS:
FLEXIBLE, PRECISE AND
CUSTOMER-SPECIFIC.**

— Nathalie Reyns
Shipping & Project Manager



Check out our website:

 **empro-europe.com**

And follow us on LinkedIn:

 **empro-europe**



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