

**Vitavance™**

**Fat based ingredients  
for animal nutrition**



**BUNGE**



## Expert support to ensure healthy, safe and sound animals

With feed costs representing up to 70% of the overall cost of farm production, feed selection has a major impact on profitability. That's why feed mills and farmers constantly substitute raw materials based on price to achieve required levels of animal productivity. We offer cost-effective oil and fat solutions that help optimize animal performance and maximize profits for both compound feed producers and farmers.

We know you want to create innovative compound feed products that add value for farmers by supporting animal health, growth and vitality. We combine our expertise in oils and fats with our knowledge of animal nutrition to deliver high-performance solutions that help optimize the production of meat, fish, milk and eggs.

## Food safety is an increasingly important issue

Our secure supply chain ensures consistent volumes of high-quality products. At the same time, the high traceability of our raw materials ensures safety of both animals and humans, protecting your reputation and bottom line.



# Let's create together

With more than 325 combined years of experience, we are experts at modifying oils and fats for a wide range of applications. We understand the fat requirements of different animal species, from ruminants and pigs to poultry and fish. We use this combined expertise to work with market specialists and research institutes to produce innovative, tailored products that optimize animal performance. We also work with you. By understanding your business goals and challenges, together we create products that help make you successful.

## Going the extra mile

Our services go beyond technical expertise. With our in-depth market knowledge, we can advise you on the best time to buy palm oil, lauric and shea materials. Plus the scale and efficiency of our operations ensure high-performance products in the right volumes at the right price.

## Taking responsibility

As a company with a background in both infant and animal nutrition, we know how sensitive the market is to food safety. That's why we only source high-quality raw materials for our risk-conscious customers. And to create long-term value, we are committed to sustainable practices in everything we do, from our choice of oil to how we operate our refineries.

# Vitavance™ High-end products tailored to specific needs

We use our expertise in fat modification and animal nutrition to deliver a broad a range of bulk products for general use. We also develop high-end fats and oils tailored for the needs of specific animal species:

## Vitavance™

R-range:  
Bypass fats to increase  
milk production

## Vitavance™

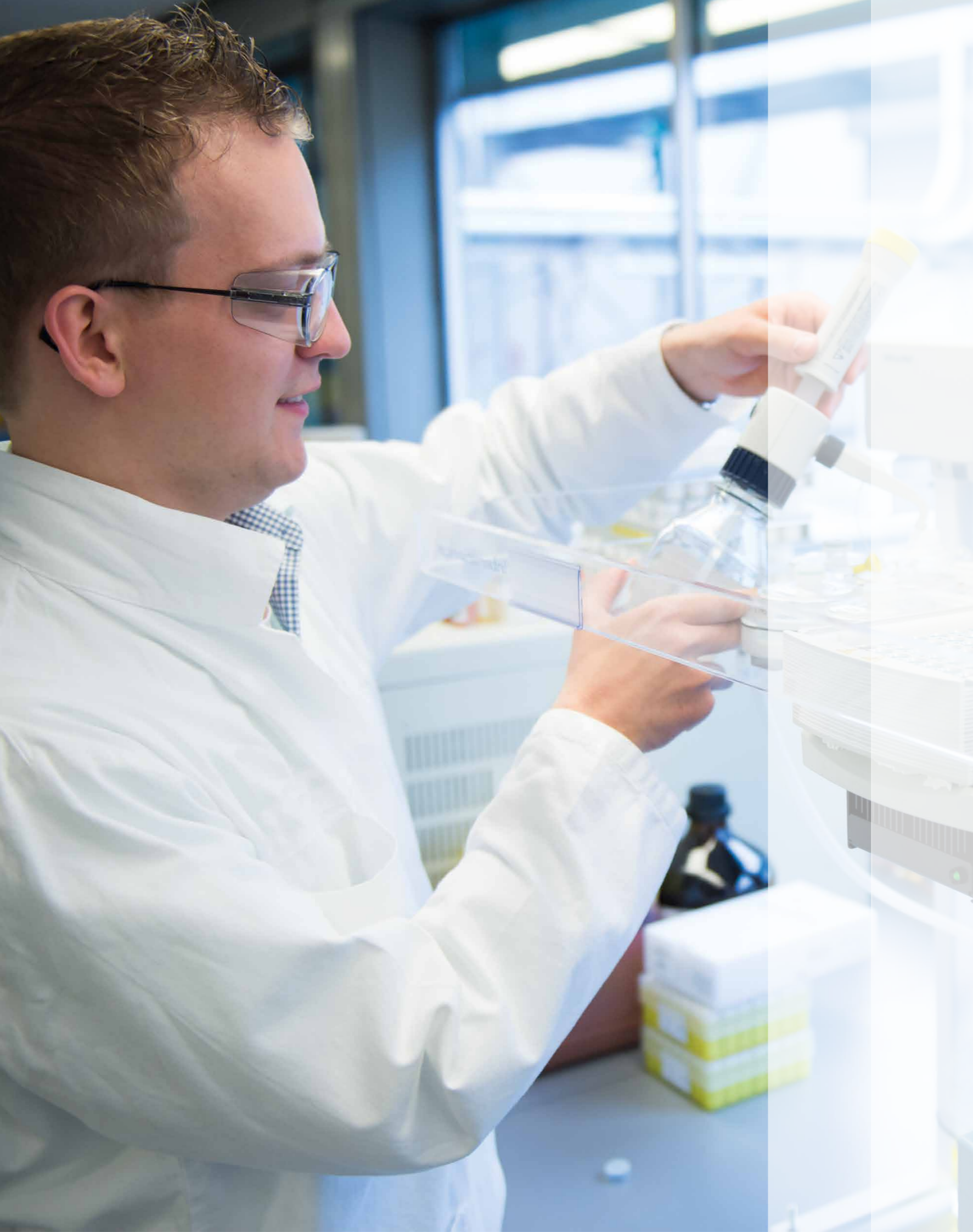
V-range:  
Fat and fatty acid based  
products to increase  
growth and vitality in  
poultry and pigs

## Vitavance™

Extensive range  
of fat products, serving  
the needs of all  
animal groups

All these products are derived from traceable sources and characterized by their consistent high quality making them safe for both animals and consumers.














## Ensuring quality and safety throughout the supply chain

Our worldwide supply chain ensures an uninterrupted supply of high-quality oils and fats. We also have our own quality assurance laboratories that check our raw materials and products at every point in the supply chain. In addition, our stringent quality control procedures are supported by GMP, ISO and other certifications to ensure compliance with current quality and safety standards.

We also invest heavily to ensure the traceability of our palm oil supply chain. As a result, we always have a great deal of information about the origin of our products. This gives you more peace of mind than buying on the CIF market.

# Products that deliver the result in animal production

## Vitavance

Product name	Additional information	Melting point °C (MDP)	Free Fatty Acid % (FFA)	Fatty acid composition (%)								Animal groups								Sustainability (RSPO)						
				C8	C10	C12	C14	C16	C18:0	C18:1	C18:2	 Dairy Cows	 Beef Cattle	 Calves	 Broilers	 Layers	 Swine	 Aqua culture	 Goat	 Segregated	Mass Balance					
<b>Vitavance R-range: rumen bypass products to increase milk production and milk fat%</b>																										
Vitavance RF 80	Palm fatty acid	61	95				1	81	3	12	3	X	X						X	on request	X					
Vitavance RF 35	Palm fatty acid	58	95				2	34	60	2	1	X	X						X	on request	X					
Vitavance RS 35	Palm fatty acid / calcium	n.a.	95				1	33	5	47	12	X	X							on request	X					
Vitavance RT 80	Palm triglyceride	61	0.2				1	81	5	10	2	X	X	X					X	X	X					
Vitavance RT 60	Palm triglyceride	61	0.1				1	58	38	1	1	X	X	X					X	X	X					
Vitavance RT 50	Palm triglyceride	61	0.1				1	44	53	2	1	X	X	X					X	X	X					
Vitavance RF 05	Shea fatty acid	70	95					5	92	1		X	X						X	not applicable	not applicable					
Vitavance RT 10	Shea triglyceride	70	0.1					6	90	1		X	X						X	not applicable	not applicable					
<b>Vitavance V-range: products to support vital growth</b>																										
Vitavance VG 90	Lauric monoglyceride	24	5				on request												X	X	X	X	on request	on request		
Vitavance VF 99	Palm kernel fatty acid	46	99			99														X	X	X	on request	X		
Vitavance VF 50	Palm kernel fatty acid	29	90	3	3	48	16	8	3	15	2									X	X	X	on request	X		
Vitavance VF 45	Lauric fatty acid	30	70	3	4	45	16	12	3	14	3									X	X	X	on request	X		
Vitavance VT 53	Shea triglyceride	9	15			1	1	7	28	53	10								X	X	X	X	X	not applicable	not applicable	
<b>Vitavance standard range</b>																										
Vitavance CPO	Crude palm oil	39	6			1	1	45	4	39	10	X	X						X	X	X	X	X	X	X	
Vitavance PFA	Palm fatty acid	42	95				1	33	5	47	12	X	X						X	X	X	X	X	X	X	
Vitavance RBD PO	Refined palm oil	39	0.1			1	1	45	4	39	10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Vitavance RBD POF 55	Refined palm olein	20	0.1			1	1	40	4	42	12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Vitavance RBD POF 64	Refined palm super olein	3	0.1			1	1	34	4	46	14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Vitavance RBD POS	Refined palm stearin	54	0.1			1	1	59	5	28	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Vitavance RBDPOS MY	Palm stearin	54	0.2			1	1	59	5	28	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Vitavance CPKO	Crude palm kernel oil	31	6	3	3	48	16	9	2	16	3									X	X	X	X	X	X	
Vitavance RBD PKO	Refined palm kernel oil	31	0.1	3	3	48	16	9	2	16	3									X	X	X	X	X	X	
Vitavance RBD PKF	Refined palm kernel olein	22	0.3	4	3	43	13	9	2	22	4									X	X	X	X	X	X	
Vitavance HPKO	Hydrogenated palm kernel oil	41	0.1	3	3	46	16	9	22	1										X					X	
Vitavance RBD CNO	Refined coconut oil	27	0.1	8	7	47	18	9	3	6	2									X	X	X	X	X	not applicable	not applicable
Vitavance HCNO	Hydrogenated coconut oil	38	0.1	8	7	47	18	9	11											X					not applicable	not applicable
Vitavance RBD CNF	Refined coconut olein	23	0.3	9	7	46	16	9	3	8	2									X	X	X	X		not applicable	not applicable
Vitavance RBD FM	Fat mixture	30	1				variable				variable									X	X	X	X		not applicable	not applicable

# Vitavance™ R-range – enabling increased milk production

The Vitavance R range of products serves as a specific energy source in the ruminant diet. These products are specifically designed to increase milk production, boost vitality and improve profitability.

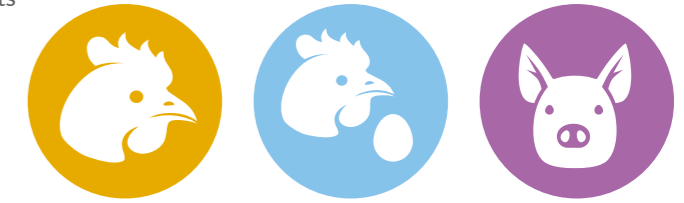
- ✓ Boosts milk production and milk fat percentage
- ✓ Adds concentrated energy to the ration
- ✓ Contributes to production in beef cattle
- ✓ Increases animal vitality by reducing heat stress
- ✓ Natural flavor ensures improved uptake
- ✓ Excellent processability, available in liquid and powder form



# Vitavance™ V-range – supporting vital animal growth

The Vitavance V range of products serves as a safe source of energy in the animal diet. These products are specifically designed to boost animal vitality and growth.

- ✓ High absorption rate delivers twice as much energy as carbohydrates or proteins
- ✓ Specific fatty acid profile supports vitality, reducing disease and mortality rates
- ✓ Neutral flavor improves uptake
- ✓ Solely produced for animal nutrition, securing the lowest possible levels of contaminants





# Sustainable Sourcing

Our vision is to build value chains that are integrated from farm to consumer, traceable and verifiable, and which create positive impacts on the ground for growers and producers. Our company is committed to applying policies that reflect this vision across our businesses and supply chains, and to collaborating with stakeholders and other value chain participants – from farmers to consumers – to realize them at scale.

Sustainability is core to us and we are a leader in our industry. We seek to feed the world while working to preserve it by minimizing our environmental

footprint, promoting responsible agriculture and establishing accountability through tracking and disclosing progress on our commitments.




Action on Climate

We implement innovative solutions to minimize our environmental footprint and support projects and activities that strengthen our approach to fighting climate change.



Responsible Supply Chains

We promote sustainable agriculture and implement robust projects that protect and improve the environment, while supporting the social and economic well-being of growers and local communities.



Accountability

We aim to be an accountable leader within our industry, helping to raise the bar on our sector's performance by regularly tracking and disclosing progress on our commitments and sustainability performance.

## Focus on Carbon

We're helping to usher in a low-carbon future. This means reducing our emissions, promoting sustainable practices in the supply chain, and growing our business in low-carbon markets. We have adopted carbon-focused decision-making: a "climate lens" is now an integrated part of our business strategy, including how we source our key commodities. We are constantly working to minimize our environmental footprint and contribute to innovative solutions that cut carbon across our value chain while delivering value to stakeholders.

