



QUALITY ASSURANCE AND PRODUCTS SAFETY

Product quality and safety is of Sodrugestvo Group's priorities. All the raw materials received by the company go through quality and safety checks. We ensure that quality is maintained of our trade and transit goods of third parties, and quality and safety of finished products in the course of production, storage and supply. We share and track flows of products with various names and trademarks, in particular in terms of GM/non-GM.

For operational management of activities on high-quality finished products output the technology of express quality analysis is implemented in the production cycle. The present technology is implemented through the use of in-line and stable NIR-analysers.

Incoming control of raw materials and supplied goods, control over technological processes and finished products in terms of their quality and safety are ensured by internal structural subdivisions, as well as through engagement of independent surveyor and expert organizations, divisions of trade and industry chambers and accredited testing laboratories. Our main partner in the area of laboratory testing in Russia and the FSU is an independent testing laboratory New Lab located in the territory of our production and logistics complex in the Kaliningrad Region. Besides, our modern complex in the Russian Federation accommodates permanent control points of governmental authorities that perform control and supervision over turnover of crops, oilseed and products made by processing them.

All imported and released products subject to conformity declaration, certification or state registration go through the corresponding procedures.

The Food/Feed Product Safety Management System is based on the HACCP principles and complies with ISO 20000 and GMP+ standards, which is proved by conformity certificates issued by Russian and foreign certification bodies.



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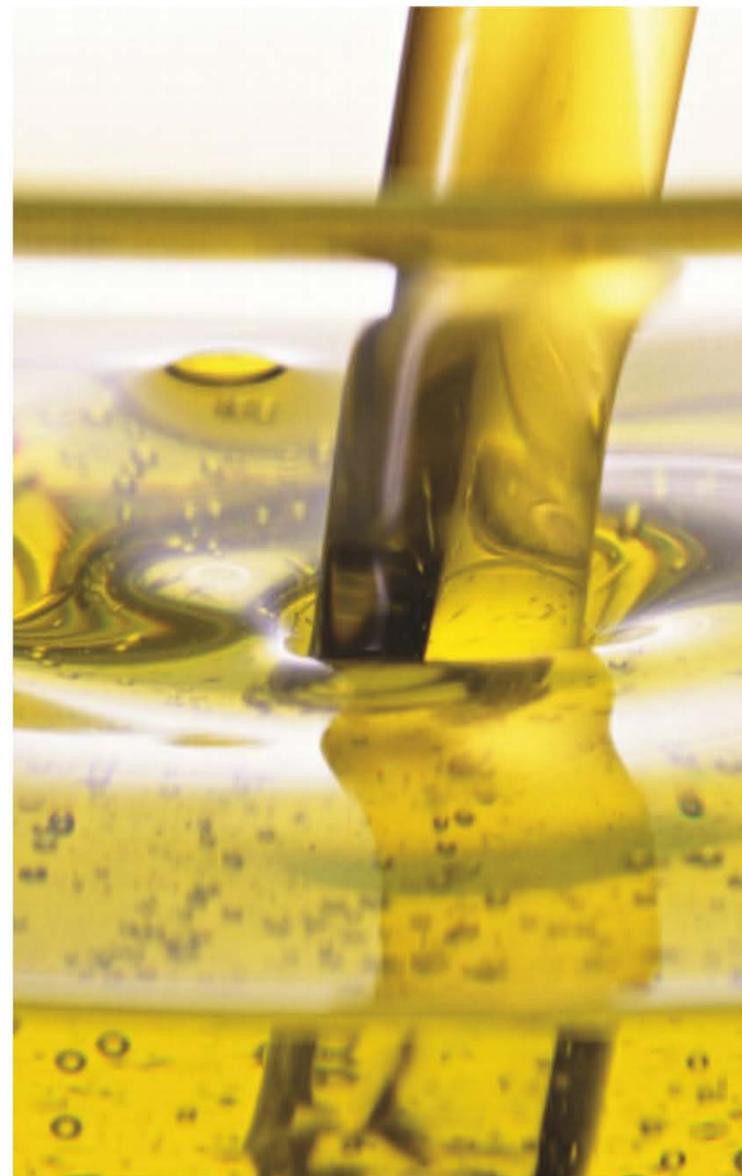
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PRODUCTS of Kaliningrad Multi-Modal Processing and Logistics Complex



Sodrugestvo is an international agro-industrial Group based in Luxembourg, which has strong presence in Northern, Central and Eastern Europe, Mediterranean East and Latin America.

The Company supplies highest quality products and provides a wide scope of services to agricultural markets.

Sodrugestvo is a fast-growing agro-industrial company with business partners across the globe. We have all that is required for success – the qualities that make it possible for us to supply animal and vegetable proteins compliant with top quality standards to fast-developing global markets.



PROCESSING AND LOGISTICS COMPLEX

The oilseeds processing complex has been built with the latest technologies and is one of the modern in Europe both in respect of its production facilities and in the scope and scale of its tasks, the major of which:

- to substitute proteins imported in Russia and neighboring countries with local products;
- to develop new export corridors for grain and oilseeds from Russia and neighboring countries by creating modern transport and logistics infrastructure.



MEALS

Sodrugestvo Group is the only manufacturer in Russia and FSU producing soybean and rapeseed meals having quality parameters and nutritional value to match global standards.

Contents of crude protein in soybean meal vary from 46% to 49% at product moisture not exceeding 12%, depending on customer requirements. GMO and non-GMO products are manufactured separately.

Contents of crude protein in rapeseed meal vary from 32,6% to 49% at product moisture not exceeding 12%, depending on customer requirements. GMO and non-GMO products are manufactured separately.

Both soybean and rapeseed meals are the most valuable sources of high-quality feed proteins and the products well balanced in amino acids.

We are capable of delivering our meals to any destination in Russia and other FSU countries in Sodrugestvo own railcars 365 days a year, 24 hours a day.

Quality characteristics	Soybean meal	Rapeseed meal
Mass fraction of protein at actual humidity %, not less than	46.0	37.0
Mass fraction of moisture and volatile matters, %, not exceeding	12.0	8 - 12
Mass fraction of fat, on a dry matter basis, %	2.0 - 4.0	not more than 3.0
Mass fraction of fibre, on a dry matter basis, %	4.0 - 7.0	not more than 16.0

Packing: Soybean meal is either shipped without tare (in bulk) or packed in 50 kilo bags.

SOYBEAN HULL

Pelletized soybean hull having undergone special treatment is used as a feed component for agricultural animals, for production of compound feed products and as a raw material for producing fiber.

Quality parameters:

Mass fraction of raw protein, on a dry matter basis, %, not less than	10.0
Mass fraction of raw fat, on a dry matter basis, %, not more than	6.0
Mass fraction of moisture and volatile substances, %, not more than	14.0
Mass fraction of raw fibre, on a dry matter basis, %, not more than	45.0

Packing: Soy hull is either shipped without tare (in bulk) or packed in 50 kilo bags.

OIL

Sodrugestvo Group is the largest Russian manufacturer of oil used in various sectors of food-processing and engineering industries.

The Company supplies refined deodorized soybean oil, degummed soybean oil and crude rapeseed oil that meet internationally recognized quality standards.

Soybean oil plays a major part in providing for vital human needs, being a source of bioactive essential fatty acids, it is used for prevention of cardiovascular diseases, ensures improvement of body metabolism. Along with other vegetable oils, soybean oil should necessarily be included in human diet to ensure good health and longevity.

Rapeseed oil, being a rich source of essential polyunsaturated fatty acids, as is soybean oil, plays an important part in providing for human vital needs; it is used for prevention of cardiovascular diseases (reduces a possibility of thrombi formation in human body and cholesterol levels in blood) and ensures metabolism improvement.

Quality parameters:

	Deodorized refined soy oil	Degummed soy oil	Unrefined rapeseed oil
Acid value, mg KOH/g, not more	0.3 - 0.4	4.0	4.0
Mass fraction of moisture and volatile substances, %, not more	0.1	0.2	0.3
Mass fraction of non-fatty substances, %, not more	N/A	N/A	0.2
Mass fraction of phosphorus, mg/kg, not more than/ in terms of steoroaleocithine, %, not more	20.0/0.05	200/0.5	300/0.8
Peroxide value, mmole/kg, not more than	4.0 - 10	10.0	10.0
Anisidine index, not more than	3.0/not rated	not rated	not rated
Shelf life	4 months	4 months	4 months

Packing: 180 kilo drums, 1000 kilo drums, tanks. Other types of containers may be used as agreed with the customer.

LECITHIN

Lecithin is a valuable food ingredient, representing a variety of natural vegetable phospholipids. It is used as a highly efficient food supplement that improves emulsifying, dispersing and other rheological properties of a number of foodstuffs, and as an antioxidant.

As the leading Russian manufacturer of soybean and rapeseed oils, Sodrugestvo Group owns production facilities for output of up to 12 TPD of high quality food-grade lecithin (soybean and rapeseed) in different kinds of package depending on customer needs. For many years, soybean lecithin is produced under BALTCITHIN trademark.

Liquid soybean lecithin «Baltcithin» E322 is a standard phosphatide concentrate with high contents of phospholipids obtained in processing of soybean oil.

Liquid rapeseed lecithin E322. One of the main lecithin sources are rapeseeds. Lecithin composition includes polyunsaturated fatty acids and phosphorus, a vital vehicle for cells of all living organisms. Rapeseed lecithin is used in various applications in food and non-food industries.

Basic phospholipids (% of total amount of lipids)	Soy lecithin	Rapeseed lecithin
Phosphatidyl choline	16.0	17.0
Phosphatidyl ethanolamine	13.0	9.0
Phosphatidyl inositol	10.0	10.0
Phosphatidyl acids	5.0	4.0

Packing: metal barrels 200 kg each, plastic containers 1 ton each.

SOY PROTEIN CONCENTRATE

Soy protein concentrate (SPC) is a purified protein product containing up to 65% of crude protein. The product is manufactured from food-grade soybean meal (White flake) released from soluble sugars in the process of alcohol extraction. The process allows obtaining the main protein fractions in a highly available form. SPC is an alternative to calf milk replacer (CMR) and fishmeal. The main advantages of using soy protein concentrate in compound feeds for animals and poultry is the high degree of protein digestibility, good amino acid profile, low contents of antinutritional factors and extended shelf life.

SPC is intended for use in feeds either by direct introduction in animal diets, in production of compound feeds, or in production of pet food. It is suitable for introduction in feeds for all kinds of animals, poultry and fish.

Organoleptic parameters:

Appearance: - for unground types - for ground types	- grits sized 0.3 - 0.8 mm - fine powder
Color	Light creamy to yellowish or light beige
Odor	Typical of soy protein products, without any foreign odors

Physical and chemical parameters:	62-K	65-K	70-K
Mass fraction of moisture and volatile substances, %, not more than		10.0	
Mass fraction of crude protein on a dry matter basis, %, not less than	56.0	59.0	63.0
Mass fraction of raw fat, on a dry matter basis, %, not more than		1.5	
Mass fraction of raw ashes, on a dry matter basis, %, not more than		7.5	
Mass fraction of raw fibre on a dry matter basis, %, not more than		5.5	

Packing:
- polypropylene bags with liners/laminated paper bags up to 50 kilos of net weight;
- soft polypropylene containers (Big bags) with the net weight of 1000 kg or as agreed with customers.

