

# Product Data Sheet

## ROHAVIN® L100

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### DESCRIPTION

ROHAVIN® L100 is a fungal pectinase enzyme preparation used in white and red wine production to improve skin maceration, juice extraction, clarification, and filtration.

### PROPERTIES

Declared enzyme	Pectinase
Declared activity	550 PE/g
Production strain	<i>Aspergillus niger</i>
IUB number	3.1.1.11
CAS number	9025-98-3
Physical form	Liquid
Color	Brown
Density	1.1-1.2

*Color and appearance may vary from batch to batch. Color intensity is not an indication of enzyme activity.*

### APPLICATION AND BENEFITS

ROHAVIN® L100 is universally applicable and splits both soluble and insoluble pectin, which reduces the viscosity of the juice and simplifies processing. The enzyme is particularly qualified for thick-skin grapes, and those with limited maturity.

Due to its high temperature stability, the enzyme can be used at up to 60°C in thermovinification.

### DOSAGE

The dosage of the enzyme depends on the raw materials used and reaction conditions such as pH, temperature, and time.

The optimal dosage should be determined in trials. For initial trials, typical dosages are:

White and rosé wine:

- Maceration of crushed grapes: 2-4 ml/100 kg (the addition of the enzyme should be continuous, preferably as a 10% solution during crushing).
- Juice clarification: 1-3 ml/hl.

Red wine:

- Skin fermentation: 1-3 ml/hl.
- Thermovinification: 3-5 ml/hl.

### PRODUCT COMPOSITION

Pectinase, glycerol (q.s.), ammonium sulfate (q.s.), water, potassium sorbate (0.035%)

Constituent	Amount in %
Enzyme	48-52
Glycerol	45
Ammonium sulfate	5
Potassium sorbate	0.035
Water	Remainder

### GMO STATUS

ROHAVIN® L100 and its constituent enzyme are not genetically modified.

The enzyme components are produced by fermentation of microorganisms that is not genetically modified. The microorganisms are removed and not present in the final product.

Only agricultural raw materials of non-GM origin are used for the fermentation processes and final formulation.

### STORAGE CONDITIONS AND SHELF LIFE

Recommended storage: Store cool below 10 °C.

The best before date is displayed on the certificate of analysis and product label.

The product should be used within 24 months of the production date. Thereafter, reanalysis is recommended.

### PACKAGING

SAP no.	Package size	Material
12497	25 kg	PE canister

Palletized with 24 units per pallet (dimensions 120x80x110 cm).

The packaging is in conformity with the requirements for raw materials used in the packaging of foods as defined by the Commission Directives (EU) and FDA (USA) regulations.

### COMPLIANCE AND LEGAL STATUS

Our enzyme products are used as processing aids in the food manufacturing process and are thus free from any labeling provisions in the European Union.

The product does not fall within the scope of EU regulations (EC) 1829/2003 and (EC) 1830/2003 on genetically modified food and feed.

The product fulfills the purity specifications of the Joint FAO/WHO Expert Committee on Food Additives (JECFA) and Food Chemicals Codex (FCC) for food-grade enzymes.

ROHAVIN® L100 is approved in all EU member states, except of Denmark. Advice on the legal status for other countries is available upon request.

### SPECIAL DIET INFORMATION

Kosher	Certified
Halal	Certified
Vegans (Ovo)-(Lacto)- Vegetarians	We guarantee that no raw materials or processing aids derived from animal origin were utilized, and that all other formulation components of the enzyme product are not of animal origin.

Certificates are provided upon request.

## ALLERGENS

Ingredients referred to in Article 9, Article 21 and Annex II of Regulation (EU) No 1169/2011	Present (as added component) (Yes/No)	Remark
Cereals containing gluten <sup>1)</sup>	No	Wheat bran used as RM in fermentation, but considered consumed and absent in the final product
Crustaceans and products thereof	No	
Eggs and products thereof	No	
Fish and products thereof	No	
Peanuts and products thereof	No	
Soybeans and products thereof	No	
Milk and products thereof (including lactose)	No	
Nuts <sup>2)</sup>	No	
Celery and products thereof	No	
Mustard and products thereof	No	
Sesame seeds and products thereof	No	
Sulfur dioxide and sulfites at concentrations of more than 10 mg/kg or 10 mg/l expressed as SO <sub>2</sub>	No	
Lupine and products thereof	No	
Mollusks and products thereof	No	

<sup>1)</sup> i.e., wheat, rye, barley, oats, spelt, kamut

<sup>2)</sup> i.e., almond, hazelnut, walnut, cashew, pecan, Brazil nut, pistachio, macadamia, and Queensland nut

## NUTRITIONAL VALUES

Typical calculated values per 100 g

Energy	1023 kJ
Total fat	<1 g
Saturated fat	0 g
Total carbohydrate	48 g
Sugars	0 g
Added sugars	0 g
Protein	10 g
Salt	0 g
Potassium	20 mg
Minerals	6 g
Vitamin D	0 mg

## PURITY CRITERIA

Total viable count	< 50,000 / g
Coliforms	< 30 / g
E. coli	absent in 25 g
Salmonella	absent in 25 g
Antibiotic activity	negative by test
Heavy metals (as Pb)	< 30 mg / kg
Arsenic	< 3 mg / kg
Lead	< 5 mg / kg
Cadmium	< 0.5 mg / kg
Mercury	< 0.5 mg / kg

## CERTIFICATION

AB Enzymes GmbH and its production site ROAL Oy have a certified quality management system according to ISO 9001:2015 and HACCP. AB Enzymes complies with the "Guidance on Social Responsibility" ISO 26000:2010 standard.

ROAL Oy in Finland holds ISO 9001:2015 quality management, ISO 50001:2011 energy management, and ISO 14001:2015 environmental management certification.

In addition, Food Safety Management System certification according to FSSC 22000 is in place and reviewed in regular audits.

## SAFETY AND HANDLING

Avoid unnecessary contact with enzyme preparations when handling, and avoid the formation of aerosol and dust of the product. Repeated inhalation of enzyme aerosol or dust may cause sensitization, or allergic type reactions in sensitized individuals.

For further details on the safe handling of our products, please consult our Safety Data Sheet.