







ENDOZYM® ICS 10 Éclair

Highly concentrated enzyme for must clarification



-> TECHNICAL DESCRIPTION

Endozym ICS 10 Éclair is a very higly concentrated form and characterized by an elevat ed pectinlyasic activity: it displays, in fact, 35.000 unifs of PL, which enable it to clarify like no other preparation. Its pectinlyasic activity is seven times higher than that of normal commercial preparations. It is particularly suited for musts which have been rapidly cooled down.

-> COMPOSITION AND TECHNICAL CHARACTERISTICS

Enzymatic activity	Activity/g
PL (U/g)	35,000
PE (U/g)	1,550
PG (U/g)	8,500
CMC (U/g)	315
Total UP (U/g)	40,050

The value is approximate and is not a specification.

PL (Pectinlyase): breaks down both the esterified and non-esterified pectins. This is a fundamental activity of the AEB enzymes, since it produces a very rapid clarification speed.

PE (Pectinesterase): it supports the PG in breaking down pectin.

PG (Polygalacturonase): breaks down only the non-esterified pectins. Its enzymatic activity works in synergy with the PL activity and performs a very important role in determining must clarity and wine filterability.

CMC (Cellulase): represents several enzymatic activities which in synergy with pectinase, release colouring matter, tannins and aromatic precursors from the grape skin.

The total measure of enzyme activity, which is indicated for each preparation, can be expressed as:

Total UP (U/g), which is the measure of enzyme activity resulting from the sum of PL, PG, PE activities measured individually.

Endozym ICS 10 Éclair is purified by the following activities:

CE (Cinnamyl Esterase): is an activity found in unpurified enzymes, which causes the formation of volatile phenols, compounds which lend unpleasant aromatic nuances to the wine, which, if present in high concentrations, are reminiscent of horse sweat.







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--> DOSAGE

Minimum dosage: 0,2 mL per hL or 100 hg of product to be treated.

The minimum recommended dosage for each Endozym product, varies according to the extractive and clarifying intensity required and is mostly influenced by the crushed grapes temperature. The time/ temperature ratio (8-35°C), shows that for every 5°C drop in temperature, the required period necessary for the enzymatic breakdown is doubled. By using higher dosages, the unfavourable influence of low temperatures can be rectified. For example, if a dose of 1 g/hL at 18°C breaks down pectins in 2 hours, a dose of 4 g/hL will reduce the required time to 30 minutes.

-> INSTRUCTIONS FOR USE

Dilute directly in 20-30 parts of non sulphurized must or demineralized water or add directly into the grapes, crushed grapes or must. Use at the start or during the refilling of the tanks.

-> ADDITIONAL INFORMATION

INFLUENCE OF SO,

Enzymes are resistant to SO₂ levels normally used in winemaking, however it is good practice not to put them in direct contact with sulfur solutions.

ACTIVITY CONTROL

There are various methods for evaluating enzymatic activity. A system utilized by AEB is a method of direct measure, directly linked to the concentration of the PL, PG and PE; the total of the three activities yields the Total UP per gram unity. The determination methods of pectolitic units together with the relative activity diagrams are made available to all technical personnel by AEB.

-> STORAGE AND PACKAGING

Keep **Endozym ICS 10 Éclair** in the original sealed packaging away from light, and in a cool, dry, odour-free place at a temperature below 20°C. Do not freeze. Observe the expiry date on the packaging. Use promptly after opening.

Stands containing 5 net 200 g blisters.