RESOLUTION OIV-OENO 486B-2012

DETERMINATION OF CELLULASE ACTIVITY IN ENZYMATIC PREPARATIONS - REVISION OF THE MONOGRAPH OIV-OENO 8/2008

The GENERAL ASSEMBLY,

In view of article 2, paragraph 2 iv of the Agreement of 3 April 2001 establishing the International Organisation of Vine and Wine was founded,

Taking note of the works of the "Specification of Oenological Products" expert group,

CONSIDERING the resolution OIV-OENO 8-2008 adopted by theOIV

DECIDES on the proposal of Commission II "Oenology" to modify resolution OIV-OENO 8-2008 published in the International Oenological Codex according to the following marked modification:

Determination of cellulase activity in enzymatic preparations

endo-(1 →4)-β-D- glucanase

(EC 3.2.1.4 – CAS N° 9012-54-8)

(OENO 8/2008)

General specifications

These enzymes are generally present among other activities, within an enzyme complex. Unless otherwise stipulated, the specifications must comply with the resolution OENO 365–200 concerning the general specifications for enzyme preparations included in the International Oenological Codex.

1. Origin

Reference is made to paragraph 5 "Source of enzyme and fermentation environment" of the general monography on enzymatic preparation

The enzyme preparations containing this activity are produced by directed fermentations, as exemple, of Aspergillus Niger Trichoderma longibrachiatum (T. reesei), Penicillium sp., Talaromyces emersonii or Rhizopus oryzae.

Certified in conformity Izmir, 22nd June 2012
The Director General of the OIV
Secretary of the General Assembly
Frederico CASTELLUCCI

© OIV 2012

2. Scope / Applications

Reference is made to the International Code of Oenological Practices, OENO 11/04; 12/04; 13/04; 14/04 and 15/04.

Enzymes catalysing the degradation of cellulose-type of grape cell walls polysaccharides, mainly endo-(1 →4)-β-D-glucanases, are useful to speed up and fulfill the maceration process of the grapes. They also have a positive effect on filtration and clarification in allowing a more complete enzymatic degradation of polysaccharides.

The following points remain unchanged

3. Principle
4. Apparatus
5. Reagents
6. Solutions
7. Preparing the standard solutions of glucose
8. Preparation of the sample
9. Procedure
10. Calculations
11. Characteristics of the method
12. Bibliography

Certified in conformity Izmir, 22nd June 2012
The Director General of the OIV
Secretary of the General Assembly
Frederico CASTELLUCCI

© OIV 2012