



Vine and Wine
Department

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TITRIVIN AA4

REFERENCE MATERIAL FOR OENOLOGY LABORATORY

CERTIFICATE OF ANALYSIS

Material

Blend of wines and musts from different sources.

Preparation

Prepared by the Vine & Wine Department of the Gironde Chamber of Agriculture, in accordance with the techniques and processes used in oenology.

Packaging

Partially vacuum-packed ampoules by Pharmaceutical Products Factory, GMP certified.

Ampoules made of yellow, semi-neutral glass with a nominal capacity of 10 ml.

Uniformity

Control test performed on 1⁰/₀₀ of ampoules sampled at regular intervals during packaging.

Stability

Product stabilised with SO₂ and physical treatment processes used in oenology. Stability is controlled every month.

Storage

Store away from light between 5°C and 25°C.

Reference values

Values were determined from the results of a series of tests involving 41 oenology laboratories, accredited by COFRAC (French Accreditation Committee).

Average values were calculated in accordance with the provisions of NF ISO 5725 standard.

Confidence interval

Each value is expressed with a confidence interval of the mean above or equal to 95%.

Acceptability interval

Corresponds to the maximum variation that a laboratory can settle around the value attributed to the TITRIVIN during a analysis

Use

- ✓ Calibration of measuring instruments
- ✓ Quality control
- ✓ Estimate of uncertainties

Expendable ampoules to be used immediately after opening.

Batch A 03071212 4

PARAMETRE	VALUE	CONFIDENCE INTERVAL (95%)	ACCEPTABILITY INTERVAL (95%)
Alcoholic strength by vol. (%)	13,75	+/- 0,05	+/- 0,20
Reducing sugars (g/L)	9,26	+/- 0,37	+/- 1,60
Glucose + fructose (g/L)	8,26	+/- 0,28	+/- 1,40
Total acidity : ⇒ g H ₂ SO ₄ /L ⇒ meq/L	5,73 116,9	+/- 0,07 +/- 1,4	+/- 0,30 +/- 6,1
Volatile acidity : ⇒ g H ₂ SO ₄ /L ⇒ meq/L	0,60 12,2	+/- 0,02 +/- 0,4	+/- 0,08 +/- 1,6
Acetic acid (g/L)	0,69	+/- 0,05	+/- 0,20
Malic acid (g/L)	3,25	+/- 0,16	+/- 0,80
Lactic acid (g/L)	0,19	+/- 0,04	+/- 0,14
pH	3,83	+/- 0,02	+/- 0,08

Validity :

- DEC 2012

le responsable