



Vine and Wine  
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# TITRIVIN AA1

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 1<sup>0</sup>/<sub>00</sub> of ampoules sampled at regular intervals during packaging.

### Stability

Product stabilised with SO<sub>2</sub> 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 1

PARAMETRE	VALUE	CONFIDENCE INTERVAL (95%)	ACCEPTABILITY INTERVAL (95%)
Alcoholic strength by vol. (%)	9,46	+/- 0,04	+/- 0,16
Reducing sugars (g/L)	1,77	+/- 0,14	+/- 0,60
Glucose + fructose (g/L)	0,67	+/- 0,05	+/- 0,24
Total acidity : ⇒ g H <sub>2</sub> SO <sub>4</sub> /L ⇒ meq/L	2,70 55,1	+/- 0,05 +/- 1,0	+/- 0,20 +/- 4,1
Volatile acidity : ✓ g H <sub>2</sub> SO <sub>4</sub> /L ✓ meq/L	0,21 4,3	+/- 0,02 +/- 0,4	+/- 0,08 +/- 1,6
Acetic acid (g/L)	0,23	+/- 0,02	+/- 0,08
Malic acid (g/L)	0,16	+/- 0,02	+/- 0,08
Lactic acid (g/L)	1,41	+/- 0,09	+/- 0,34
pH	3,66	+/- 0,02	+/- 0,08

Validity :

- DEC 2012

le responsable