REPUBLIC OF FRANCE

CHAMBRE D'AGRICULTURE GIRONDE

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TITRIVIN AA2

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 $1^0/_{00}$ of ampoules sampled at regular intervals during packaging.

Stability
Product stabilised with SO_2 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 an analysis.

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

Expendable ampoules to be used immediately after opening.

Batch A 03061211 2

Validity :
- DEC 2011

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PARAMETRE	VALUE	CONFIDENCE INTERVAL (95%)	ACCEPTABILITY INTERVAL (95%)
Alcoholic strength by vol. (%)	11,02	+/- 0,04	+/- 0,16
Reducing sugars (g/L)	5,10	+/- 0,25	+/- 1,00
Glucose + fructose (g/L)	3,81	+/- 0,09	+/- 0,40
Total acidity : ⇨ g H_2SO_4/L ⇨ *meq/L*	3,56 *72,7*	+/- 0,05 *+/- 1,0*	+/- 0,20 *+/- 4,1*
Volatile acidity : ⇨ g H_2SO_4/L ⇨ *meq/L*	0,32 *6,5*	+/- 0,02 *+/- 0,4*	+/- 0,06 *+/- 1,2*
Acetic acid (g/L)	0,37	+/- 0,02	+/- 0,08
Malic acid (g/L)	0,77	+/- 0,05	+/- 0,20
pH	3,22	+/- 0,02	+/- 0,06

AFAQ ISO 9001 VERSION 2000