

**K-TANN “B” – POWDER TANNIN FROM GRAPE**

Water extract tannin from compound of fermented pressed grapes with ripe red fruits notes. Especially suitable to improve the organoleptic characteristics of red and blush wines. Increases the wine taste and body giving to the wine ripe red fruits notes. Improves the color stability and is suitable for all the winemaking steps. To determine the optimum dosage required, preliminary test are recommended.

PRODUCT :	Phenolic compound extracted from pressed grapes
DESCRIPTION :	Spray-dried extract from Vitis Vinifera, consisting of proanthocyanidins
APPEARANCE :	Beige / light brown powder
SOLUBILITY :	Water-soluble (shaking the solution)
TASTE :	Bitter and astringent
FLAVOUR :	Dry and neutral with ripe red fruits notes
APPLICATION :	Winemaking: flocculant of excess proteins, antioxidant, amends and protects anthocyanins. Pharmaceutical and nutraceutical industries
RECOMMENDED DOSAGE :	White and blush wines: - to be tested Red wines: 2-10 g/Hl
SHELF-LIFE :	5 years
STORAGE :	Keep containers tightly closed in a dry place, at room temperature (12 – 20°C), away from heat and light
PACKAGING :	5 kg or 10 kg bags 1 or 3 kg bags are available upon request (minimum quantities are required)
SAMPLES :	Available all year round

**CHEMICAL SPECIFICATIONS:**

pH (10%) :	2,5 – 3,3
Extract :	94 – 98%
Total Polyphenols :	> 90%
Catechins & proanthocyanidins :	20 – 30%
Sulphur dioxide :	< 1000 ppm % powder
Lead :	< 5 ppm
Arsenic :	< 3 ppm
Cadmium :	< 1 ppm
Mercury :	< 1 ppm

**MICROBIOLOGICAL SPECIFICATIONS:**

Total count :	< 50/g
Yeast :	< 10/g
Mould :	< 10/g
Coliforms in 1 g :	0
Salmonella in 25 g :	0

### Analysis Procedure

#### **TOTAL POLYPHENOLS:**

Spectrophotometric Method.  
(g/100g of product as (+) catechin)

#### **CATECHINS AND PROANTHOCYANIDINS, Vanillina reaction**

Spectrophotometric Method.  
(g/100g of product as (+) catechin)

#### **PROANTHOCYANIDINS, Bate-Smith reaction**

Spectrophotometric Method.  
(g/100g of product as (+) catechin)

#### **SULPHUR DIOXIDE**

Distillation of 1% solution of tannin powder in distilled water (IFU7a)

#### **METALS**

**Lead – Arsenic – Cadmium = ICP-OES Method**

**Mercury = extraction in nitric acid 1: 10**

#### **Salts – Acids – Metals**

Analysis	Method	Result	Um
CHLORIDE	ionic chromatography method	< 100	mgKg
SULPHATES	ionic chromatography method	< 100	mgKg
ORGANIC ACIDS	ionic chromatography method	< 1	g/Kg
FREE SUGARS	ionic chromatography method	< 10	g/Kg
MERCURY	extraction in nitric acid 1:10	< 0.02	mgKg
LEAD	ICP OES optic	< 0.1	mg/Kg
HEAVY METALS	ICP OES optic	traces	

Product for oenological use – Reg. (CE) N.606/2009

*These specifications should be taken as an indication and can be subjected to slight variations*

KELLER JUICES SRL – Società unipersonale  
REGISTERED OFFICE: VIA MARIO VELLANI MARCHI 50 – 41124 MODENA ITALY  
OFFICES: VIA PANSA, 1 – 42124 REGGIO EMILIA - ITALY  
TEL: +39 – 0522 – 232555 / TELEFAX: +39 – 0522 – 921516  
http:// www.kellerjuices.com - E-mail:info@kellerjuices.com  
P.IVA e C.F. 03597760366 – Cap.Soc. Euro 10.000 i.v.R.E.A. MO-401774