



P.O. Box 71
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South Africa



B R E N N - O - K E M

Organic grape seed extract

(Condensed tannins)

Certificate of analysis

Description:

**Condensed tannins extracted from organic grape seeds
Organic certification by SGS**

Applications in winemaking (red wines):

- clarification and increase protein stability
- improves structure, enhances aging potential
- stabilize wine colour
- antioxidant

Dosage recommendation:

- 10 to 30 g/Hl during alcoholic fermentation
- 5 to 10 g/Hl in wine before final filtration

Batch nr. : ORGGSE500107

Chemical Classification

100% Natural extract from *Vitis vinifera*

Physical appearance

Fine Reddish Brown Powder

Colour

Reddish Brown

Odor

Characteristic Tannin

Taste

Astringent

Analysis:

	<u>Specification:</u>	<u>Result:</u>
%Moisture	< 8%	3.1%
Ash content	< 8%	5.1%
Total polyphenols (gallic acid equivalent) Folin method	> 50%	52.1%

Heavy metals:

Arsenic (As)	< 3 ppm	Complies
Cadmium (Cd)	< 1 ppm	Complies
Lead (Pb)	< 10 ppm	Complies
Mercury (Hg)	< 1 ppm	Complies

Microbiology:

Total Plate count (CFU/g)	< 1000	Complies
Coliforms (CFU/g)	< 5	Complies
Yeast and Mould (CFU/g)	< 100	Complies
Escherichia coli	0	No growth
Salmonella	0	Absent
Staphylococcus aureus	0	No growth

Signature

Date

R. Genade

26 November 2007

For Brenn-O-Kem (Pty) Ltd

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