

# Quercezina

Glycosidase enzyme, facilitates quercetin stabilization

## Features

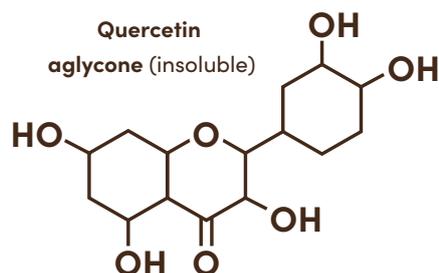
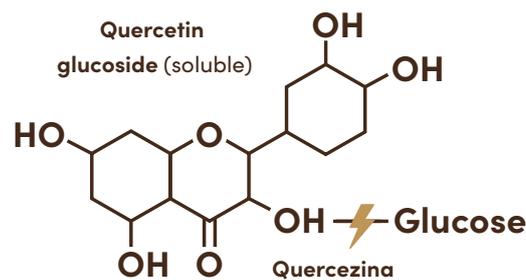
Quercezina is a pectolytic enzyme with specific  $\beta$ -glycosidase activity.

## Applications

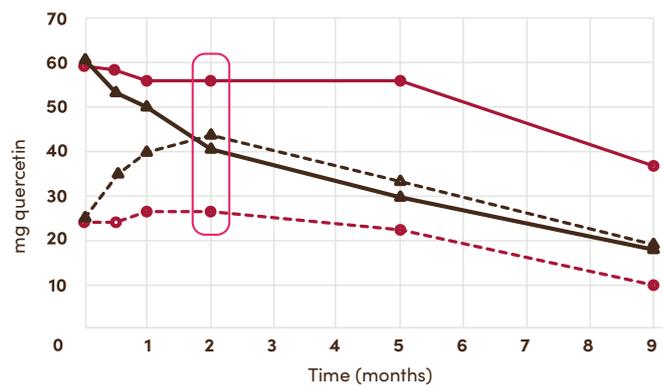
The presence of quercetin represents a problem in several red grape varieties, Sangiovese in particular. The glycosylated form, soluble in wine, may transform at unpredictable times into the free and insoluble form, which is responsible for precipitations that can also occur in the bottle.

The  $\beta$ -glycosidase activity converts quercetin glucoside into quercetin aglycone. In this way, the use of Quercezina accelerates the release of quercetin, allowing clarification and stabilization phases to be scheduled in order to reach bottling with a lower risk of precipitation. In wines with quercetin glucoside levels equal to or higher than 10 ppm, the use of Quercezina is particularly recommended.

The affinity for the substrate and the resulting specificity of action ensure respect for the wine's colour.



## QUERCETIN GLUCOSIDE AND AGLYCONE



Quercezina (5 g/hL) enabled the release of 20 mg/L of quercetin after 2 months of contact. In the control wine, the process began only from the 5th month.

After 9 months, the control wine still showed a very high glycoside content (40 mg/L), indicating a high potential for instability

--○-- Aglycone CW    --▲-- Aglycone Quercezina    —●— Glucoside CW    —▲— Glucoside Quercezina

## Dosage and method of use

3 to 8 g/hL.

Disperse in a small amount of water and add to the wine, mixing thoroughly. Ensure a contact time of at least 4 weeks and a temperature not lower than 13 °C.

## Packaging and storage

100 g jars.

Store in the original sealed packaging in a cool, dry place.

	ABS		CIEL*a*b					ΔE
	IC	T	L*	a*	b*	Chroma	Hue	
CW	10,94	1,14	15,5	45,78	26,89	53,09	30,37	
Quercezina	11,52	1,15	15,2	46,06	26,28	53,03	29,79	0,78

After 9 months, the spectrophotometric and CIELab values do not differ significantly between the control wine and the wine treated with Quercezina (5 g/hL). This is also confirmed by the ΔE value (0.78 = difference that is hardly perceptible).

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