SCOTT LABORATORIES

2220 Pine View Way • P.O. Box 4559 • Petaluma, CA • 94955-4559

NO BRETT INSIDE

Chitosan product of fungal origin

CHARACTERISTICS

No Brett Inside is a new tool to cope with *Brettanomyces* populations. It is a Chitosan product derived of fungal origin. Chitosan is a linear polymer of D-glucosamine and N-acetyl-D-glucosamine (randomly distributed). It's the product of chitin deacetylation (hydrolis of N-acetyl groups of chitin). Chitosan has many commercial applications from the medical industry, agricultural industry, cosmetic industry and now wine. No Brett Inside is a light beige powder. *Please note: No Brett Inside can reduce* Brettanomyces *populations in wine but it has no impact on 4EP or 4EG levels already present in the wine.*

RECOMMENDED DOSAGE

4-8 g/hL (40-80 ppm) or 0.33-0.67 lbs/1000 gal*

NOTE: No Brett Inside may only be added after TTB letterhead approval. Draft letters for use are available on the Scott Labs website (www.scottlab.com)

DIRECTIONS FOR USE

Analyze the wine after malolactic fermentation (glucose/fructose, alcohol, TA, VA, pH, free and total SO_2, malic and lactic acid, color (Total Polyphenol Index), turbidity and plate wine for starting *Brettanomyces* cell count). When wine has been analyzed prepare No Brett Inside by suspending it in 5 times its weight in water. Additions can be made during pump-overs or during tank agitations/mixings. Let the No Brett Inside settle for 10 days then rack off the lees and run wine analyses again.

BENCH TRIAL PREPARATION

Please see attached sheet to aid you with your trial. Fill 3 x 1L flasks with homogenized samples of the wine. One flask will be the control and will not be treated with No Brett Inside. The other two flasks will be dosed with 4 g/hL and 8 g/hL respectively. Suspend 1 gram of No Brett Inside in 5 mL water then dose accordingly into each flask. No Brett Inside is not soluble so make sure to stir the wine while pipetting to achieve an accurate dosage. Once added to wine samples make sure the wine is well mixed. Allow samples to settle for at least 10 days at room temperature. After 10 days carefully decant wine off of lees of all three flasks, making sure to leave a deposit at the bottom of the flask and run microbial analysis. Discard wine after trial.

Target Addition	lbs/1000 gal	ml's lab dilution per 1 L
4 g/hL (40ppm)	0.33	0.2
8 g/hL (80ppm)	0.67	0.4

PACKAGING and STORAGE

No Brett Inside is packaged in a 100g container. No Brett Inside should be stored in a cool dry place.

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LALLEMAND

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1 – Information regarding the trial:

1.1 – General characteristics of the wine:

Grape-variety:

Region:

Vintage:

1.2 – Analytical Characteristics of wine:

Glucose Fructose (g/100mL)	Alcohol (% by volume)	Total Acidity (g/100mL)	Volatile Acidity (g/100mL)	pH	Free SO_2 (mg/L)	Total SO_2 (mg/L)	Malic Acid (g/L)	Lactic Acid (g/L)	IPT (280nm)	Turbidity (NTU)

1.3 – *Brettanomyces* cell count of wine:

Date:

Method of Analysis:

Population:

2 – Protocol to set up trial:

2.1 Fill 3 x 1L flasks with homogenized sample of the Brett suspect wine.
2.2 Suspend 1 gram of No Brett Inside in 5 mL water and add to wine

Flask 1 (Control)	Flask 2 (4g/hL)	Flask 3 (8g/hL)
0 mL/L of No Brett Inside Solution	0.8 mL/L of No Brett Inside Solution	1.6 mL/L of No Brett Inside Solution

2.3 No Brett Inside must be well mixed into each volume of wine. Once well mixed into the suspect wine allow the samples to set for 10 days at room temperature.

3 – Results of trial:

After the 10 days have passed, rack the treated wines off their lees making sure to leave a deposit at the bottom of the flask and run microbial analysis on all three samples to evaluate the effectiveness of the treatment. Before pulling samples for analysis make sure to mix each flask so samples are homogenized then pipette from the middle of the sample. Discard wine after trial.

Treatment	0 g/hL	4 g/hL	8 g/hL
Brettanomyces Count (Plating Results)			
Brettanomyces Count (PCR Results)			
Other Method			