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Work Order# 08283-501442

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Analysis Report

Date Submitted 10/9/2008 **Report Date** 10/9/2008

Sample Test Results

1 08 Temp
08283-501442-1
Juice Panel (A)

pH measure	3.74
Total Titratable Acidity	.47 g/100ml
Brix, Refractometer	24.9
Nitrogen, Amino Acids NOPA	144 ppm
Ammonia Nitrogen, Enzymatic	97 ppm
Yeast Available Nitrogen	241 ppm

Supplementing yeast nutrients is an established wine making practice to reduce the risks of stuck or sluggish fermentations and the generation of sulfide compounds. MicroEssentials is a comprehensive product line from Gusmer which we believe is the most complete and cost effective approach to providing nutrient supplements to yeasts during fermentation. The dosage rate is based primarily on the total YAN (Yeast Assimilable Nitrogen) in the must, with consideration given to the expected difficulty of the fermentation due to high brix, heat stressed vines and other factors. For a more complete discussion of this, see page 16 of our current Catalog or call your Gusmer Sales person.

Nutrient Recommendation

Nutrient Product	Dosage Rate	
ME Complete TR	2 lbs/ 1,000 Gallons	18 White Tabs / 1,000 Gallons
		23 Tan Tabs/ 1,000 Gallons
ME Boost TR	1 lbs/ 1,000 Gallons	18 White Tabs / 1,000 Gallons
ME Trace	optional	

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David Jeffrey-Enologist

To calculate your dosage rate for red wine musts, use the approximate liquid fraction of the must which is about 175 gallons per ton – note that this is different from the wine fraction of the must, which will be less

MicroEssentials Complete TR and Boost TR are time release nutrient formulations which should be added at the time of yeast inoculation or the first signs of bubbling for a native yeast fermentation. Nutrients are made continuously available to the yeasts over approximately a 4 day period.

The MicroEssentials product line also includes a Powder form which can be used instead of ME Complete TR. ME Powder has no time release feature so all nutrients are immediately available to yeasts. ME Powder would be appropriate to use if there is a history or expectation of a very fast fermentation, ie, less than 4 days. When using ME Powder, the total dosage should be broken down into multiple additions over the first half of fermentation.

Please see the Gusmer Catalog and our website (www.GusmerWine.com) for further details on these products.



David A. Jeffrey, Enologist