



YEAST NUTRIENT ADDITIONS

Nutrient	Standard Addition Rate/1000 gal.	Limit on Addition/1000 gal.
DAP	1-8 lb	8 lb (1 lb/1000 gal =25ppm N)
Fermaid K	1-2 lb	2 lb (1 lb/1000 gal =12ppm N)
Yeast Nutrient	1-2 lb	2 lb (1 lb/1000 gal = 9 ppm N)
Yeast Extract	1-2 lb	2 lb (1 lb/1000 gal =14 ppm N)
Yeast Hulls	1-3 lb	3 lb
Cerevit	20 grams	20 grams

Any of these materials should be dispersed in water before mixing into juice (DAP: 2-4 lb/gallon of cold water; other nutrients: 1-2 lb/gallon of lukewarm water).

Nutrients should be added in the juice stage for yeast uptake and storage early in the growth cycle. Presence of alcohol later in the fermentation interferes with uptake of nitrogen compounds making late additions ineffective for yeast growth. Mid fermentation additions of yeast extract containing supplements will contribute to yeast cell ethanol resistance.

Yeast hulls (essentially cell membranes) provide lipids and serve to bind autotoxic yeast metabolites and therefore can be added early or late in fermentations.

Cerevit should be added with yeast or at the onset of fermentation for maximum vitamin uptake and impact on yeast enzymatic system development.