



Nutrient Guidelines

with Nutriferm Energy, Arom and Advance

Yeast nutrition is an essential factor in the overall health and success of fermentations. Without the proper nutrition introduced at the right stage in their growth cycle, yeast can come under stress and produce undesirable characteristics. Stuck or sluggish fermentations are other hazards of poor yeast nutrition. To determine what nutritional supplements are needed, the following values for juice or must are necessary:

- **Brix**
- **Yeast Assimilable Nitrogen (YAN)**

The YAN is analytically determined by calculating the sum of the ammonia and the assimilable amino nitrogen (AAN). The results of the Brix and YAN tests will set the parameters for proper nutritional guidelines. The following charts are designed to give an understanding of the best nutrients to use and the proper time to add them. The synergistic use of oxygen can offer additional protection for yeast when added during the first 1/3 of sugar depletion.

How much **DAP** (g/hL) to add to bring the YAN up to 150 mg N/L? Use the following equation:
 $[150 \text{ mg N/L} - (\text{original YAN of juice} + \text{Nitrogen of Energy/Arom})] \div 2 = \text{g/hL of DAP}$

Must or juice containing LOW YAN (<125 mg N/L)

°BRIX	ADD AT INOCULATION	FIRST DAP ADDITION 12 HOURS AFTER INOCULATION	ADD AROUND 1/3 SUGAR DEPLETION
22	Nutrifer Energy 15 g/hL (1.25 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	DAP to bring YAN to 150 mg N/L	Nutrifer Advance 40 g/hL (3.34 lb/1,000gal)
23	Nutrifer Energy 15 g/hL (1.25 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	DAP to bring YAN to 150 mg N/L	Nutrifer Advance 40 g/hL (3.34 lb/1,000gal)
24	Nutrifer Energy 15 g/hL (1.25 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	DAP to bring YAN to 150 mg N/L	Nutrifer Advance 40 g/hL (3.34 lb/1,000gal) and DAP 10 g/hL (0.83 lb/1,000gal)
25	Nutrifer Energy 15 g/hL (1.25 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	DAP to bring YAN to 150 mg N/L	Nutrifer Advance 40 g/hL (3.34 lb/1,000gal) and DAP 15 g/hL (1.25 lb/1,000gal)
26	Nutrifer Energy 15 g/hL (1.25 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	DAP to bring YAN to 150 mg N/L	Nutrifer Advance 40 g/hL (3.34 lb/1,000gal) and DAP 20 g/hL (1.67 lb/1,000gal)
27	Nutrifer Energy 15 g/hL (1.25 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	DAP to bring YAN to 150 mg N/L	Nutrifer Advance 40 g/hL (3.34 lb/1,000gal) and DAP 25 g/hL (2.09 lb/1,000gal)
Nutrifer Energy 15 g/hL = 20 mg N/L Nitrogen Content Nutrifer Arom 30 g/hL = 55 mg N/L Nitrogen Content		DAP 1 g/hL = 2 mg N/L Nitrogen Content	Nutrifer Advance 40 g/hL = 60 mg N/L Nitrogen Content DAP 1 g/hL = 2 mg N/L Nitrogen Content

Must or juice containing MEDIUM YAN (125-225 mg N/L)		
°BRIX	ADD AT INOCULATION	ADD AROUND 1/3 SUGAR DEPLETION
22	Nutrifer Energy 10 g/hL (0.83 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 30 g/hL (2.5 lb/1,000gal)
23	Nutrifer Energy 10 g/hL (0.83 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 30 g/hL (2.5 lb/1,000gal)
24	Nutrifer Energy 10 g/hL (0.83 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 30 g/hL (2.5 lb/1,000gal) and DAP 5 g/hL (0.42 lb/1,000gal)
25	Nutrifer Energy 10 g/hL (0.83 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 30 g/hL (2.5 lb/1,000gal) and DAP 10 g/hL (0.83 lb/1,000gal)
26	Nutrifer Energy 10 g/hL (0.83 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 30 g/hL (2.5 lb/1,000gal) and DAP 15 g/hL (1.25 lb/1,000gal)
27	Nutrifer Energy 10 g/hL (0.83 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 30 g/hL (2.5 lb/1,000gal) and DAP 20 g/hL (1.67 lb/1,000gal)
Nutrifer Energy 10 g/hL = 13 mg N/L Nitrogen Content Nutrifer Arom 30 g/hL = 55 mg N/L Nitrogen Content		Nutrifer Advance 30 g/hL = 27 mg N/L Nitrogen Content DAP 1 g/hL = 2 mg N/L Nitrogen Content

Must or juice containing HIGH YAN (>225 mg N/L)		
°BRIX	ADD AT INOCULATION	ADD AROUND 1/3 SUGAR DEPLETION
22	Nutrifer Energy 5 g/hL (0.42 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 20 g/hL (1.67 lb/1,000gal)
23	Nutrifer Energy 5 g/hL (0.42 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 20 g/hL (1.67 lb/1,000gal)
24	Nutrifer Energy 5 g/hL (0.42 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 20 g/hL (1.67 lb/1,000gal)
25	Nutrifer Energy 5 g/hL (0.42 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 20 g/hL (1.67 lb/1,000gal)
26	Nutrifer Energy 5 g/hL (0.42 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 20 g/hL (1.67 lb/1,000gal)
27	Nutrifer Energy 5 g/hL (0.42 lb/1,000gal) or Nutrifer Arom 30 g/hL (2.5 lb/1,000gal)	Nutrifer Advance 20 g/hL (1.67 lb/1,000gal)
Nutrifer Energy 5 g/hL = 6 mg N/L Nitrogen Content Nutrifer Arom 30 g/hL = 55 mg N/L Nitrogen Content		Nutrifer Advance 20 g/hL = 31 mg N/L Nitrogen Content