A Compendium of Mead Knowledge

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1 Fermentation

1.1 Yeast

There is a vast variety of high quality yeasts available to the average meadmaker. Highlighed below are a few of the favorite more easily available ones. In general, the best results from a given yeast are usually obtained when fermenting in the lower third of the yeast's fermentation temperature range.

D-47: A classic yeast for white wines. Often used to great effect in traditionals. Be careful of letting it get to warm (above 70F) as it throws off fusels and harsh alcohols. It can surlee for quite some time, adding floral characteristics.

DV10: A champagne isolate of a bayanus strain that produces minimal esters and phenols. Also tends to not blow off more delicate honey aromas. Ferments to 18% regularly. Good for dry meads and high alcohol sweet meads. It is a low nutrient yeast, but tends to produce sulfur unless frontl-loaded with nutrients (50/25/25 schedule or 75/25 seems to work well).

71B-1122: Narbonne yeast that can metabolize a certain amount of malic acid. Useful for young meads (low alcohol) or those with a significant portion of an acidic fruit.

K1V-1116: A generic fruit wine yeast. Seems to produce good results in high temperature fermentation environments such as in excess of 75F.

Uvaferm 43: A bayanus yeast strain that has an alcohol tolerance of 18%+. It is commonly used for high alcohol wines and tends not to blow off delicate aromas. Also commonly used with dessert wines and stuck fermentations.

1.2 Yeast Nutrients

Nutrients are used to make up for the lack of proper nutrients in the must, to aid in fermentation speed, or to overcome a stuck fermentation. They are typically added in relatively small amounts throughout the fermentation process. Because of the small amount needed, adding too much can be done easily so some amount of care should be taken when calculating and adding nutrients to the must.

Go-Ferm: Used in rehydrating yeast. 1.25g of Go-Ferm per gram of yeast with 17g grams of water. Mix go-ferm and water together and add yeast at re-hydration temperature (typically 104-109F). Provides

DAP: Also known as Di-ammonium phosphate, chmical name $(NH_4)_2HPO_4$ is a source of inorganic nitrogen, which provides YAN (Yeast Available Nitrogen) for nitrogen deficient musts (such as honey). 1g/L provides 210ppm of YAN. 1g/Gallon provides 50ppm of YAN. Do not add past 2/3 sugar break. The yeast cannot consume the nutrient at this stage and it will likely result in Urea type aromas and flavors in the finished mead. Do not add to hydrating yeast as DAP is somewhat toxic to re-hydrating yeast.

Fermaid K: Provides micro-nutrients and YAN for yeast health. Pyridoxine and Patothenate are two of these micro-nutrients. 1g/Gallon provides 25ppm of YAN.

Yeast Hulls: also called Yeast Ghosts are dried yeast cells. Used to aid in unsticking of a stuck fermentation or to combat H₂S formation at the end of a fermentation (usually past 2/3 sugar break).

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