



TECHNICAL DATA SHEET

MUNICH CLASSIC WHEAT BEER YEAST

Munich Classic is a Bavarian wheat beer strain that can easily express the spicy and estery aroma profile typical to German wheat beer styles. This strain is simple to use over a wide range of recipe variations and fermentation conditions, making it a great choice for a number of traditional styles of wheat beer. In classic open fermentation vessels, the yeast can be skimmed off the top in the traditional manner. Styles brewed with Munich Classic include but are not limited to Weizen/Weissbier, Dunkelweizen and Weizenbock.



MICROBIOLOGICAL PROPERTIES

Classified as a *Saccharomyces cerevisiae*, a top fermenting yeast.

Typical Analysis of Munich Classic yeast:

Percent solids 93% - 97%

Living Yeast Cells $\geq 5 \times 10^9$ per gram of dry yeast

Wild Yeast < 1 per 10^6 yeast cells

Bacteria < 1 per 10^6 yeast cells

Finished product is released to the market only after passing a rigorous series of tests

*According to the ASBC and EBC methods of analysis



BREWING PROPERTIES

In Lallemand's Standard Conditions Wort at 20°C (68°F) Munich Classic yeast exhibits:

Vigorous fermentation that can be completed in 4 days

Medium to High attenuation and Low flocculation

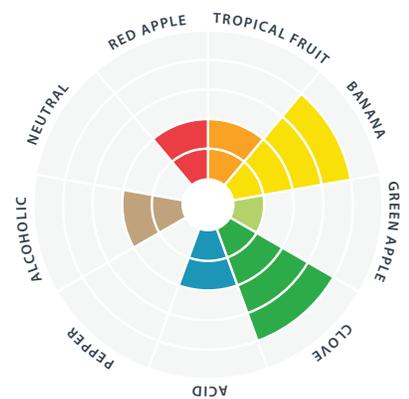
Aroma and flavor is balanced with prominent fruity esters and spicy phenol notes of banana and clove.

The optimal temperature range for Munich Classic yeast when producing traditional styles is 17°C(63°F) to 22°C(72°F)

Fermentation rate, fermentation time and degree of attenuation are dependent on inoculation density, yeast handling, fermentation temperature and nutritional quality of the wort. *If you have questions please do not hesitate to contact us at brewing@lallemand.com*



FLAVOR & AROMA



QUICK FACTS

BEER STYLES

Bavarian-style wheat

AROMA

fruity, estery, spicy

ATTENUATION

medium to high

FERMENTATION RANGE

17 - 22°C (63 - 72°F)

FLOCCULATION

low

ALCOHOL TOLERANCE

9% ABV

PITCHING RATE

50 - 100g/hL to achieve a minimum of 2.5 - 5 million cells/mL



MUNICH CLASSIC WHEAT BEER YEAST



USAGE

Depending on the desired gravity of the beer, among other variables, different yeast pitching rates should be applied. For Munich Classic yeast, pitching rate varies between 50 grams and 100 grams of active yeast to inoculate 100 liters of wort.

A pitching rate of 50g per 100L of wort to achieve a minimum of 2.5 million viable cells per ml.

A pitching rate of 100g per 100L of wort to achieve a minimum of 5 million viable cells per ml.



REHYDRATION

Rehydration of Munich Classic is recommended for use, and will reduce osmotic stress on the yeast when rehydrated and pitched in liquid form. Rehydration guidelines are quite simple, and present a much lower risk of contamination than a starter, which is unnecessary with dried active yeast.

Sprinkle the yeast on the surface of 10 times its weight in clean, sterilized water at 30-35°C (86-95F). Do not use wort, or distilled or reverse osmosis water, as loss in viability will result. **DO NOT STIR.** Leave undisturbed for 15 minutes, then stir to suspend yeast completely, and leave it for 5 more minutes at 30-35°C. Then adjust temperature to that of the wort and inoculate without delay.

Attemperate in steps at 5-minute intervals of 10°C to the temperature of the wort by mixing aliquots of wort. Do not allow attemperation to be carried out by natural heat loss. This will take too long and could result in loss of viability or vitality.



STORAGE

Munich Classic yeast should be stored dry below 10°C (50°F)

Munich Classic will rapidly lose activity after exposure to air. Do not use 500g or 11g packs that have lost vacuum. Opened packs must be re-closed, stored in dry conditions below 4°C, and used within 3 days. If the opened package is re-vacuum sealed immediately after opening, yeast can be stored for up to two weeks below 4°C.

Do not use yeast after expiry date printed on the pack.

The pitching rate may be adjusted to achieve a desired beer style or to suit processing conditions. Changes in the brewing process or fermentation parameters such as pitching rate and fermentation temperature can increase or minimize ester and spice contributions.

Munich Classic can be used in primary fermentation for beers up to 9% ABV. For beers above 9%, the yeast will require nutrient addition such as 1g/hL of Servomyces.

Find your exact recommended pitching rate with our Pitch Rate Calculator in our Brewers Corner at www.lallemandbrewing.com

Temperature shock, at greater than 10°C, will cause formation of petite mutants leading to long-term or incomplete fermentation and possible formation of undesirable flavors.

Munich Classic yeast has been conditioned to survive rehydration. The yeast contains an adequate reservoir of carbohydrates and unsaturated fatty acids to achieve active growth. It is unnecessary to aerate wort upon first use.

When using Lallemand Brewing Yeasts, you may repitch the yeast just as you would any other type of yeast according to your brewery's SOP for yeast handling.



Para más información:
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