DISTILAMAX® CN

Yeast selected by the Universidade Federal de Minas Gerais (Brazil) for use in the production of Rum

Technical Data Sheet

APPLICATIONS:

- DistilaMax ® CN is a natural strain of *Saccharomyces cerevisiae* isolated by the Universidade Federal de Minas Gerais in Brazil, under the reference UFMG 1007.
- DistilaMax CN, due to its ability to work well on fresh sugar cane-juice and cane molasses is recommended in the production of all the types of aromatic and complex rums and rhum agricole.
- DistilaMax CN displays a complex and well-balanced aromatic profile due to the production of key esters and phenyl-2 ethanol.
- DistilaMax CN shows good tolerance to osmotic stress and performs well in adverse conditions, at high temperatures up to 40°C and a pH range 3.4 - 5.3.

RESULTS WITH DISTILAMAX CN ON RUM:

DistilaMax CN's selection was based on two criteria, its ability to perform well in adverse conditions, and the production of a congener profile that is well-suited to sugar cane-juice and cane molasses spirits production such as fruity notes and complexity.

Figure 1 and Figure 2 demonstrate the results of some key aromatic congeners on sugar cane-juice and cane molasses: DistilaMax CN displays a well-balanced aromatic profile allowing the production of distinctive and complex spirits.

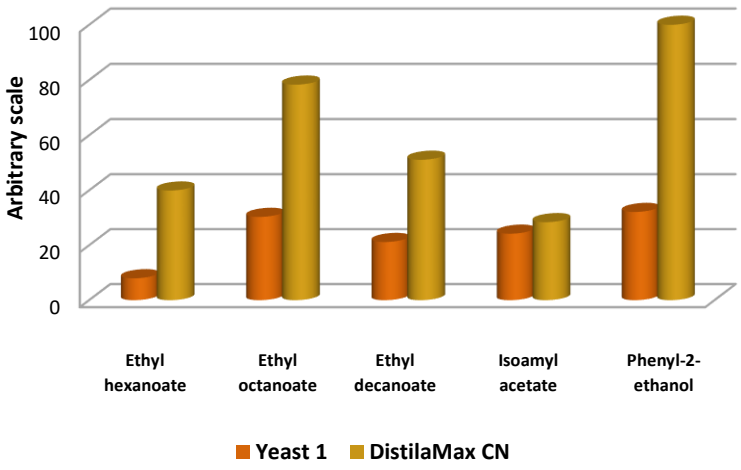

Figure 1: Some key aromatic congeners on cane-juice spirits

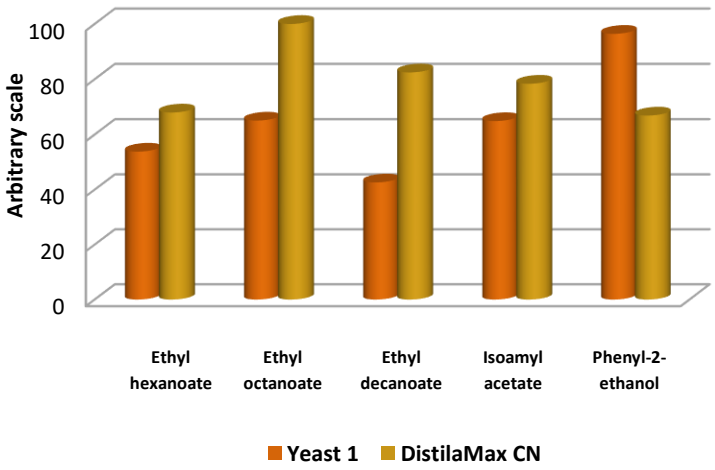

Figure 2: Some key aromatic congeners on cane molasses spirits

Ethyl hexanoate: Fruity aromas
Ethyl octanoate: Floral-like aromas
Ethyl decanoate: Floral-like aromas
Isoamyl acetate: Banana-like aroma
Phenyl-2-ethanol: Rose-like aroma

LALLEMAND BIOFUELS & DISTILLED SPIRITS

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CHARACTERISTICS:

- Solids (Dry Weight): 95.5 +/-2.5%
- Viable Cells (Cells/g): >1x10e10
- Total Wild Yeast (CFU/g): <1000

DistilaMax CN is not genetically modified and is Kosher.

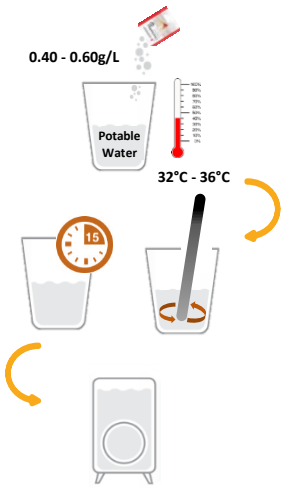
DOSAGE:

- The optimal yeast dosage is variable according to individual distillery production processes.
- Fermentation of cachaça: 0.50 grams per litre of wash or juice (dosage: 500 ppm).
- Fermentation of cane juice or cane molasses: direct pitching: 0.40 – 0.60 grams per litre of wash or juice (dosage: 400 – 600 ppm).

INSTRUCTIONS OF USE FOR SUGAR CANE SPIRITS PRODUCTION:

Lallemand Biofuels & Distilled Spirits recommends the rehydration of DistilaMax CN

1. For rehydration, use a clean container. Do not use demineralized water.
2. Rehydrate the yeast in clean water (the water should be 10 time the weight of the yeast and at a temperature of 32°C - 36°C).
3. Suspend contents carefully by gently stirring and then wait for 15 - 20 minutes maximum (minimum 10 minutes) before moving onto the next step.
4. Add this preparation to the wash. If there is a temperature difference of more than 8°C between the wash to be inoculated and the rehydration solution, add some wash slowly into the rehydration solution to reduce the temperature difference.
5. Once the vacuum-sealed bag is open or broken, use yeast promptly.



STORAGE, HANDLING & PACKAGING:

- DistilaMax CN should be stored in a cool and dry area away from heat and direct sunlight for maximum stability.
- Shelf Life: 3 years from date of manufacture if vacuum-seal is not broken.
- Packaging: DistilaMax CN is available in vacuum-sealed foil bags in boxes of 20 x 500 grams and 10kg.