



ALCOTimesTM



APRIL 2024



BALAJI ENZYME & CHEMICAL PVT LTD

Akshay Mittal Industrial Estate
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Mumbai - 400059 | +91-22-460 31 666
E-mail : info@becpl.in | Web. : www.becpl.in

Introducing AlcoTimes :

We **Balaji Enzymes & Chemical Pvt Ltd** are sharing our monthly newsletter **ALCOTIMES** for Alcohol Industry. Now we are happy to launch our new monthly news letter "ALCOTIMES" for Alcohol Industry.

About Our Company :

We **M/s Balaji Enzyme & Chemical Pvt Ltd** are a leading supplier of Enzymes, Filter aid, Yeast, Hops, Processing aids, Clarifiers and food fortification products to breweries, distilleries, malt extract industry, starch industry, juice and beverage industry, and other food industry.





BALAJI ENZYME AND CHEMICAL PVT LTD

GRAIN AND MOLASSES DISTILLERY ENZYMES AND ANTIBACTERIAL SOLUTIONS



OUR PRODUCTS

Through innovations and advanced technologies, we want to provide excellent services and build long-term relationships with our esteemed customers

THE BEST SERVICE

We intend to provide our customers the best quality services that exceed the expectations. To be the best in the industry by providing enhanced services, relationship, innovative measures and profitability.

GRAIN DISTILLERY

1

SUPER AMYLASE DX

Thermostable Alpha Amylase

2

SUPER GLUCOAMYLASE

Glucoamylase

3

VITAHOP C

Hop Based Natural Antibacterials

4

SUPER ALCOBOOST G

Antibacterials Solutions

MOLASSES DISTILLERY

1

SUPER ALCOBOOST M

Antibacterials Solutions

Contact Us



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**Akshay Mittal Industrial Estate
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Mumbai - 400059,
Maharashtra, India**



SUPERAMYLASE DX

Thermostable Alpha Amylase

Description

SuperAmylase DX is a kind of thermostable α -amylase with high activity. It is derived from *Bacillus licheniformis* and produced through submerged fermentation and refining process. It can hydrolyse α -1,4 glycosidic bond of starch randomly and reduces mash viscosity rapidly. SuperAmylase DX Alpha-amylase is designed for starch-based feedstock ethanol production

Characteristics

Component name : Alpha amylase

Activity : ≥ 150000 U/g

Color : Amber

Physical form : Liquid

Approx. density g/ml : 1.10-1.25

Enzyme	DS	Brix	Reducing sugar	Iodine test	Viscosity/cp
Benchmark	1:2.8	23.0	3.06	Brown to red	283
SuperAmylase DX	1:2.8	23.4	3.08	Brown to Red	224

pH:4.85, Dosage: 12u/g, Temp/Time: 90°C/120 min

Advantages

For ethanol producer, smooth running and high starch conversion rate are extremely important to achieve high ethanol yields. Super Amylase DX may become an ideal solution to meet your targets. The advantages are as follows:

- Outstanding viscosity reduction performance
- Easier liquefaction handling with wide pH and temperature range
- Complete starch conversion to enhance ethanol yields

Recommendation

Material/water ratio : 1:1.8-1:3 (Optimum ratio 1:2-1:2.7)

pH range : 4.8-6.5 (Optimum : 5.0 to 6.0)

Temperature range : 65-100 °C (Optimum : 75 to 95 °C)

Cooking time : 90 to 120 mins

Dosage (kg/t Starch) : 0.10-0.15 kg/T

The actual dose required will depend upon the conditions of your fermentation: time, initial pH and the level of solids.

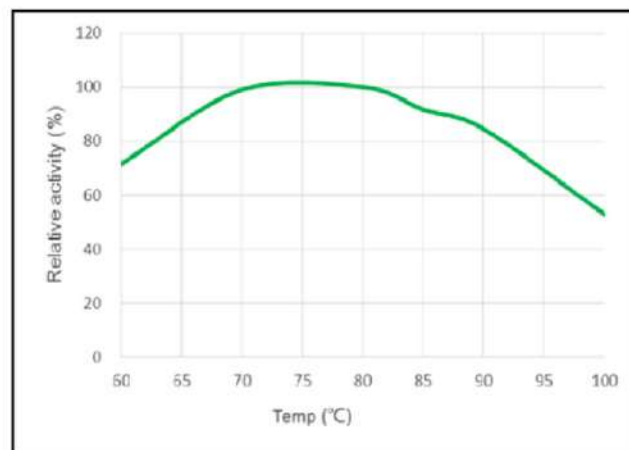


Fig. 1 : The influence of temperature on the activity of Super Amylase DX

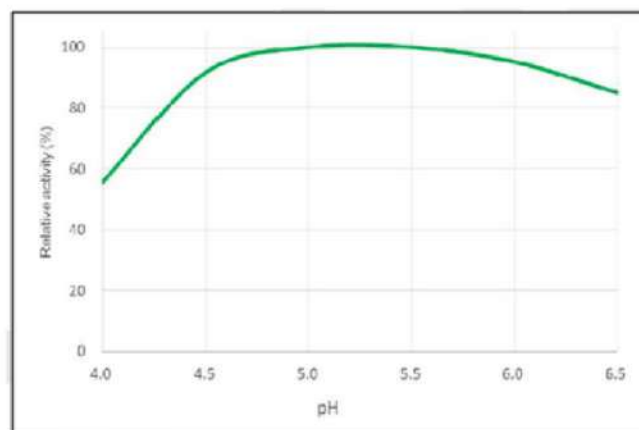


Fig. 2 : The influence of pH on the activity of Super Amylase DX

Composition

Preservatives : Potassium sorbate

Stabilizers : Sorbitol

Sodium chloride

Balaji Enzyme & Chemical Pvt Ltd

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SUPERAMYLASE DX

Thermostable Alpha Amylase

Packaging

Available in various package sizes. Please consult Our representative for detailed information.

Safety and Handling precaution

Enzymes are proteins. Inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes, and mucous membranes upon prolonged contact. See the MSDS or Safety Manual for further information regarding safe handling of the product and spills.

Storage and Shelf life

Recommended storage: 0-25 °C Packaging must be kept intact, dry, and away from sunlight. Please follow the recommendations and use the product before the best before date to avoid the need for a higher dosage. To ensure maximum retention of activity, please keep the enzyme under refrigerated conditions below 5 °C with the container closed.

Best before: You will find the best before date in the certificate of analysis or on the product label. The product can be transported at ambient temperature. Following delivery, the product should be stored as recommended



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SUPER GLUCOAMYLASE

Glucoamylase

Description

Super Glucoamylase is the exo-glucoamylase derived from a *Aspergillus niger* with extremely high enzyme activity and sugar conversion rate, which can efficiently hydrolyze α -1,4-glucosidic bonds from the nonreducing end of liquefied starch to produce glucose quickly. Super Glucoamylase Alpha-amylase is designed for starch-based feedstock ethanol production

Characteristics

Component name : Glucoamylase

Activity : 400,000 U/g

Color : Amber

Physical form : Liquid

Approximate density g/ml : ≤ 1.20

Advantages

For ethanol producer, smooth running and high starch conversion rate are extremely important to achieve high ethanol yields. The advantages are as follows:

- Release glucose quickly and smoothly, the successive glucose providing favorable conditions for alcohol production.
- Optimize fermentation time and improve the utilization rate of equipment.
- Stable production performance with wide pH and Temperature range.
- Utilized in saccharification and can achieve high DX value.
- Wide pH stability, flexibility in process control.
- Saccharification can be processed in higher temperature and drier substance concentrations.

Composition

Enzyme : Glucoamylase

Stabilizers : Glucose

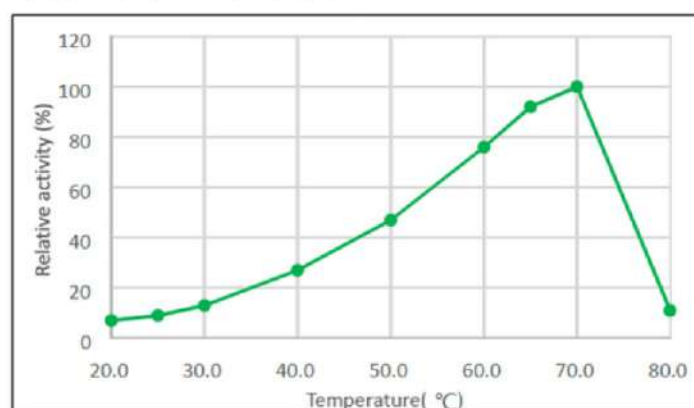


Fig. 1 The influence of temperature on the relative activity of Super Glucoamylase

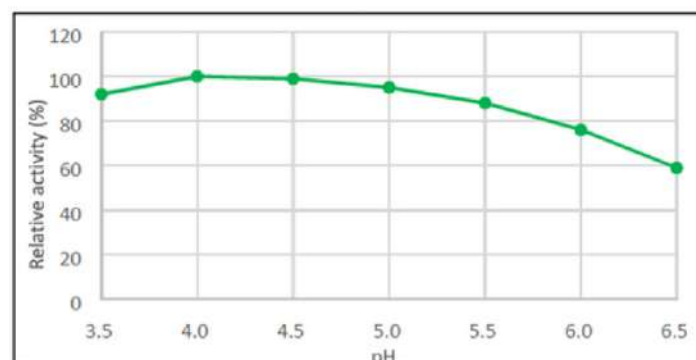


Fig. 2 The influence of pH on the relative activity of Super Glucoamylase

Recommendation

Material/water ratio: 1:1.4-1:3.0

(Optimum ratio 1:1.6 to 1:2.4)

pH range : 4.0-5.0 (Optimum : 4.1 to 4.5)

Temperature range : 30-70 °C (Optimum : 55 to 65 °C)

Dosage (kg/t Starch): 0.4-0.6 kg/T

The actual dose required will depend upon the conditions of your fermentation: time, initial pH and the level of solids.



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Safety and Handling precaution

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Vitahop®

**Increase profits in
BIOETHANOL...naturally**

Vitahop® is a range of natural hop extracts, ideal for production of bioethanol from a range of raw material feedstocks, as they protect yeast from bacterial growth, and their acid by-products, during fermentation processes. When used as part of a planned process regime with regular additions, bacterial infections do not develop and spoil yeast fermentations.

When infections do develop, they can quickly get out of control and disrupt production, potentially causing substantial losses and lost revenue. By controlling bacteria and preventing bacterial growth, catastrophic infections can be a thing of the past.

Vitahop® is used in both continuous and batch fermentations. It helps ensure healthy, vitalised yeast growth and during fermentation suppress gram positive bacteria. If bacteria are allowed to prosper, they will compete with and eventually inhibit the yeast, slowing fermentation sometimes to a complete stop, resulting in a “stuck” fermentation. Bacteria will also use up valuable feedstock producing organic acids such as lactic acid, further reducing ethanol yields. Prevent this happening with **Vitahop®**.

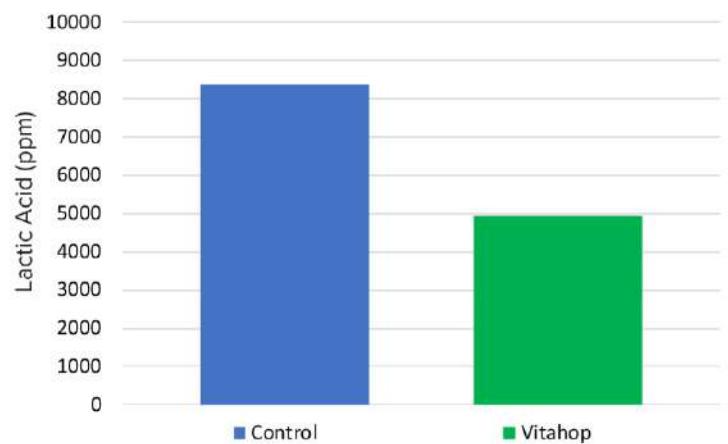


Key Benefits of Vitahop®

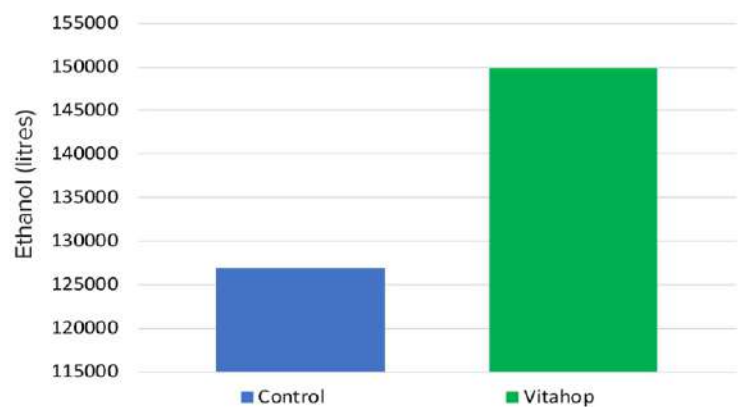
- Maintains optimum ethanol yields
- Ensures reliable fermentations
- Keeps yeast healthy
- Controls bacteria
- Demonstrated benefits in ethanol production plants worldwide
- Safe and natural, easy to use
- Safe DDGS for animal feed
- A natural alternative to antibiotics



Effect of Vitahop® on Average Lactic Acid Production at Fermenter Drop



Effect of Vitahop® on Ethanol Production



Unpublished data BetaTec 2015



BetaTec is the first company worldwide specialising in the application of hops and hop-derived compounds for use in “beyond brewing” industries. Our product portfolio includes natural fermentation aids, antibacterials, flavours and functional ingredients. Our key business areas are alcohol, yeast and sugar production.

All BetaTec products are accompanied by on-site support, process optimisation and consulting.

Please contact our technical experts to learn how Vitahop® can help you sustain improved ethanol yields.

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5185 MacArthur Blvd NW, Suite 300
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Malvern Hills Science Park
Geraldine Road
Great Malvern, Worcestershire WR14 3SZ
+44(0) 1684 217340

BetaTec® 
hop products

“Transforming your world with our natural hop solutions”



SUPER ALCOBOOST G

Grain ethanol biocide

Description

Super Alcoboost G is a powerful solid biocide in powder form that protects yeast, sugar, and alcohol by removing bacteria from wort/wash. It improves alcohol quality by reducing acid formation caused by harmful lactic acid bacteria during grain ethanol production. It also benefits microorganisms during the biomethanation process.



Advantages

Super Alcoboost G provides the following benefits:

- Reduction of yeast stress & Increased alcohol yields
- Reduces sucrose losses due to contamination
- Reduces bacterial contamination very rapidly
- Prevention of bacterial competition for glucose



Dosages

5-10 PPM in the wort prior to pitching the yeast culture, and the same dose after filling the fermenter.

We recommend 6 PPM or 600 gram per 1.00 lac litre of wort / wash for grain.

Before mixing to bulk volume in the pre fermenter and fermenter, Super Alcoboost G should be dissolved in wort / wash in a bucket. (It is readily dissolved in water, wort & wash)

Balaji Enzyme & Chemical Pvt Ltd

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SUPER ALCOBOOST G

Grain ethanol biocide

Product application

PRE FERMENTER

Dosing/application begins in the pre fermenter. Super Alcoboost G should be added as soon as 10% of the wort is transferred to the pre fermenter.

Example-

If the pre fermenter capacity is 2 lacs litres, then Super Alcoboost G should be added for full capacity as soon as 20,000 litres of wort are transferred to PF @ 600 gm per 01 lac litre, i.e. 1.2 kg Super Alcoboost G should be dissolved by hand in the same wort in a bucket & put it to PF now PF should be filled normally. (The operator must wear gloves and goggles).

FERMENTER

Super Alcoboost G should be added to the fermenter as soon as 10% of the wort is transferred/reaches the fermenter.

Example-

We presume only one fermenter of 12 lac litre in capacity.

In this case, the total amount of Super Alcoboost G should be added as soon as 10% (1,20,000 ltr) of wort/wash is transferred to the fermentation tank, i.e. @ 600 gm/one lac litre x 12 = 7.2 kg, and then the fermenter should be filled normally.

Packaging

12 Kg carton (12 sealed plastic jars - 1 Kg each)

Safety ,Handling and storage precaution

Store in a cool, dry place. Nobody should try to smell or taste anything. Hand gloves are advised to be worn when handling.



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SUPER ALCOBOOST M

Molasses ethanol biocide

Description

Super Alcoboost M is a powerful solid biocide in powder form that protects yeast, sugar, and alcohol by removing bacteria from wort/wash. It improves alcohol quality by reducing acid formation caused by harmful lactic acid bacteria during grain ethanol production. It also benefits microorganisms during the biomethanation process.



Advantages

Super Alcoboost M provides the following benefits:

- Reduction of yeast stress & Increased alcohol yields
- Reduces sucrose losses due to contamination
- Reduces bacterial contamination very rapidly
- Prevention of bacterial competition for glucose



Dosages

5-10 PPM in the wort prior to pitching the yeast culture, and the same dose after filling the fermenter.

We recommend 6 PPM or 600 gram per 1.00 lac litre of wort / wash for grain.

Before mixing to bulk volume in the pre fermenter and fermenter, Super Alcoboost M should be dissolved in wort / wash in a bucket. (It is readily dissolved in water, wort & wash)



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SUPER ALCOBOOST M

Molasses ethanol biocide

Product application

PRE FERMENTER

Dosing/application begins in the pre fermenter. Super Alcoboost M should be added as soon as 10% of the wort is transferred to the pre fermenter.

Example-

If the pre fermenter capacity is 2 lacs litres, then Super Alcoboost M should be added for full capacity as soon as 20,000 litres of wort are transferred to PF @ 600 gm per 01 lac litre, i.e. 1.2 kg Super Alcoboost M should be dissolved by hand in the same wort in a bucket & put it to PF now PF should be filled normally. (The operator must wear gloves and goggles).

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Example-

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B K GOEL

Email: goelbk20@gmail.com

Ph.: 8962405107, 8889939879

CONSULTANTS FOR DISTILLERY & BOTTLING FACILITY

We are a team headed by Mr. B K Goel (Consultant)
for below Projects/Jobs.

1. Setting up a distillery unit For Ethanol & ENA.
2. Setting up a bottling unit for manufacturing of Alcoholic Liquors such as Rum, Whisky, Gin, Brandy, Vodka & RTD.
3. Setting up the Malt Spirit Plants producing the quality as Vatted Malt Spirit.
4. Blending / Development of various liquor brands up to highest Level.
5. We also take annual contract to blend all the Alcoholic products of all range.

May Please Contact

B K GOEL

goelbk20@gmail.com

Ph. 8962405107, 8889939879



Introduction

Thermophilic ethanol production, the process of producing ethanol at high temperatures, is an emerging field with immense potential. With the increasing demand for renewable energy sources and the need to reduce greenhouse gas emissions, the production of ethanol from renewable feedstocks has gained significant attention. In this article, we will explore the potential of thermophilic ethanol production with yeast, a versatile microorganism known for its ability to ferment sugars into ethanol.

Advantages of Using Yeast in Thermophilic Ethanol Production

Yeast has long been used in industrial ethanol production due to its efficient fermentation capabilities. When it comes to thermophilic ethanol production, yeast offers several advantages. Firstly, yeast can tolerate high temperatures, making it suitable for the harsh conditions required for thermophilic fermentation. This ability to thrive at elevated temperatures allows yeast to outcompete other microorganisms, leading to improved ethanol yields.

Secondly, yeast possesses a wide range of metabolic pathways that enable it to efficiently convert various sugars into ethanol. This versatility makes yeast an ideal candidate for thermophilic ethanol production, as it can utilize different feedstocks, including lignocellulosic biomass, agricultural residues, and even waste materials. By leveraging yeast's metabolic capabilities, researchers can explore sustainable and cost-effective ways to produce ethanol.

Lastly, yeast is a well-studied microorganism with a wealth of genetic information available. This knowledge base allows researchers to engineer yeast strains specifically tailored for thermophilic ethanol production. By manipulating the genetic makeup of yeast, scientists can enhance its performance, increase ethanol production rates, and improve tolerance to high temperatures and inhibitory compounds.



Sachin Mogal

Technical Manager (Alcohol),
Balaji Enzyme and Chemical Pvt Ltd

FUELING THE FUTURE: EXPLORING THE POTENTIAL OF THERMOPHILIC ETHANOL PRODUCTION WITH YEAST

These genetic advancements open up exciting possibilities for the future of thermophilic ethanol production.

Challenges in Thermophilic Ethanol Production

While thermophilic ethanol production with yeast holds great promise, several challenges must be overcome for its successful implementation on an industrial scale. One major challenge is the need for heat-tolerant yeast strains. The high temperatures required for thermophilic fermentation can be detrimental to traditional yeast strains, leading to reduced fermentation rates and lower ethanol yields. Developing yeast strains that can withstand and thrive in these extreme conditions is crucial for the advancement of thermophilic ethanol production.

Another challenge lies in the availability and cost of suitable feedstocks. To make thermophilic ethanol production economically viable, researchers need to identify and optimize feedstocks that are abundant, easily accessible, and cost-effective. Additionally, the pre-treatment of feedstocks to make them more readily fermentable by yeast can be a complex and energy-intensive process, adding to the overall production costs.

Furthermore, the presence of inhibitory compounds in certain feedstocks can negatively affect yeast performance during thermophilic fermentation. These compounds, such as furfural and acetic acid, are released during the pre-treatment process or naturally present in some feedstocks. Finding ways to mitigate the inhibitory effects of these compounds on yeast metabolism is essential for achieving high ethanol yields.

Recent Advancements in Yeast Strains for Thermophilic Ethanol Production

In recent years, significant progress has been made in developing yeast strains specifically tailored for thermophilic ethanol production. Researchers have employed various genetic engineering techniques to enhance the thermotolerance and fermentation capabilities of yeast. By introducing heat shock proteins and other protective genes, scientists have successfully increased yeast's ability to withstand high temperatures and maintain optimal fermentation rates.

Another area of research focuses on improving yeast's ability to metabolize different sugars found in lignocellulosic biomass. By introducing genes responsible for the breakdown of complex sugars, such as xylose and arabinose, into yeast, researchers have made significant strides in expanding its substrate utilization capabilities. This development is crucial for the efficient conversion of lignocellulosic biomass into ethanol.

Additionally, scientists have explored the use of non-conventional yeast species, such as thermotolerant strains of *Kluyveromyces marxianus*, for thermophilic ethanol production. These non-*Saccharomyces* yeasts offer unique advantages, including higher ethanol tolerance and the ability to ferment a broader range of sugars. By harnessing the genetic diversity of non-conventional yeasts, researchers aim to further improve the efficiency and robustness of thermophilic ethanol production processes.

The Role of Temperature in Thermophilic Ethanol Production

Temperature plays a crucial role in thermophilic ethanol production. The chosen temperature range directly affects yeast metabolism, fermentation rates, and ethanol yields. Generally, thermophilic fermentation occurs at temperatures ranging from 40°C to 60°C, significantly higher than the optimum temperature for traditional ethanol production.

At elevated temperatures, yeast metabolism becomes more efficient, leading to faster fermentation rates and increased ethanol production. Higher temperatures also aid in lowering the risk of microbial contamination, as most contaminating microorganisms cannot survive under thermophilic conditions. However, excessively high temperatures can be detrimental to yeast viability and overall fermentation performance. Striking the right balance between maximizing ethanol production and maintaining yeast viability is crucial for successful thermophilic ethanol production.

Factors Influencing Yeast Performance in Thermophilic Ethanol Production

Several factors influence yeast performance during thermophilic ethanol production. One critical factor is the availability of fermentable sugars. The composition and concentration of sugars in the feedstock significantly impact yeast metabolism and fermentation efficiency. Different sugars require specific enzymes for their breakdown, and the presence of inhibitory compounds can further affect yeast's ability to utilize these sugars.

Another factor to consider is the pH of the fermentation medium. Yeast thrives in a slightly acidic environment, and maintaining the optimal pH range is crucial for its growth and fermentation capabilities. pH fluctuations can disrupt yeast metabolism and lead to reduced ethanol production. Therefore, careful monitoring and adjustment of the fermentation pH are essential for maximizing ethanol yields.

The presence of inhibitory compounds, as mentioned earlier, is another factor that influences yeast performance. These compounds can interfere with yeast metabolism, impair cell growth, and reduce fermentation rates.

Industrial Applications and Potential of Thermophilic Ethanol Production with Yeast

The potential of thermophilic ethanol production with yeast extends beyond the laboratory. This technology holds great promise for industrial applications and can contribute significantly to the renewable energy sector. The production of ethanol from renewable feedstocks offers an attractive alternative to fossil fuels, reducing greenhouse gas emissions and dependence on non-renewable resources.

Thermophilic ethanol production with yeast can be integrated into existing industrial processes, such as bioethanol refineries and biorefineries. By leveraging the metabolic capabilities of yeast, these facilities can increase their ethanol production capacity and diversify their feedstock options. This integration can lead to more sustainable and economically viable ethanol production processes.

Furthermore, the byproducts generated during thermophilic ethanol production, such as lignin and yeast biomass, have potential value in other industries. Lignin, a complex polymer found in lignocellulosic biomass, can be used as a feedstock for the production of bio-based chemicals and materials. Yeast biomass, rich in proteins and other valuable compounds, can be further processed and utilized in food, pharmaceutical, and agricultural industries.

The potential of thermophilic ethanol production with yeast is not limited to biofuel applications. It can also contribute to the development of bioplastics, bio-based solvents, and other bio-based products. By expanding the utilization of renewable feedstocks and optimizing the thermophilic fermentation process, researchers and industry professionals can unlock a multitude of opportunities for a more sustainable future.

Future Prospects and Research Directions in Thermophilic Ethanol Production

Looking ahead, several research directions hold promise for advancing thermophilic ethanol production with yeast. One area of focus is the development of novel yeast strains with enhanced thermotolerance and metabolic capabilities. By leveraging genetic engineering techniques and synthetic biology approaches, researchers aim to create yeast strains that can thrive under extreme temperatures and efficiently convert a wide range of feedstocks into ethanol.

Another research direction is the optimization of pre-treatment processes for lignocellulosic biomass. The efficient breakdown of complex sugars into fermentable sugars is crucial for high ethanol yields. Developing cost-effective and energy-efficient pre-treatment methods that generate minimal inhibitory compounds will be instrumental in making thermophilic ethanol production commercially viable.

Furthermore, exploring the potential of non-*Saccharomyces* yeasts for thermophilic ethanol production is an exciting avenue for future research. These non-conventional yeasts offer unique advantages over traditional *Saccharomyces cerevisiae* strains, and harnessing their genetic diversity can lead to further improvements in efficiency and substrate utilization.

Lastly, the integration of process modeling and optimization techniques can aid in the design and scale-up of thermophilic ethanol production processes. By combining experimental data with mathematical models, researchers can gain insights into the complex dynamics of the fermentation process and identify optimal operating conditions for maximum ethanol yields.

BIOFUEL EXPO 2024

International Exhibition on Biofuel Manufacturing Process & Technology, Plant Machinery & Equipment's and Allied Industries



05-07 JUNE 2024 | India Expo Centre
Greater Noida, U.P., India



FOCUS INDUSTRIES

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- Biomass Briquettes, Pallets and Machinery Manufacturers
- Biofuel Manufacturing Technologies
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- EPC solution for Grain Unloading and Milling Section & Grain Processing Machinery
- Pre Cleaner, Vibro Classifier, Destoners, Material Handling, Aspiration System, Hammer Mill.

CONCURRENT EVENTS

- ❖ World Environment Expo (WEE 2024)
- ❖ Green India Awards 2024
- ❖ India Biofuel Meet 2024

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BrewTimes

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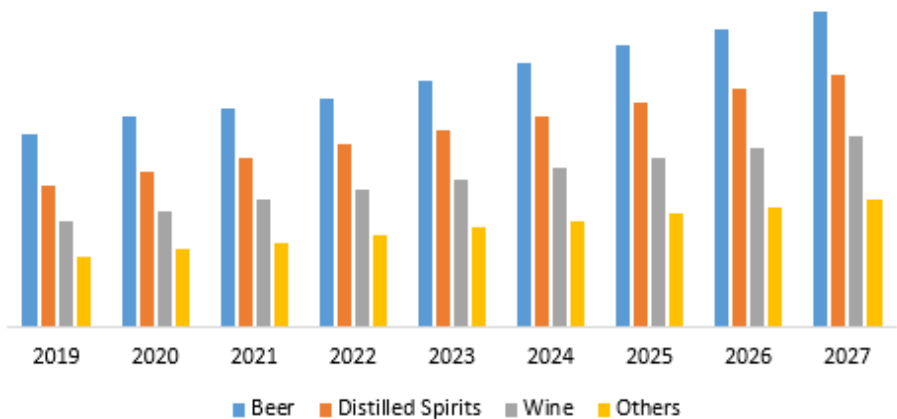
Alcohol consumption trends exhibit a complex interplay of cultural, economic, and social factors, shaping behaviors and attitudes towards drinking on both global and regional scales. Understanding these patterns is crucial for devising effective public health interventions and policy measures aimed at mitigating the adverse consequences associated with alcohol misuse. This paper aims to delve into the intricate landscape of alcohol consumption, delineating overarching global trends while scrutinizing the nuanced regional variances that characterize drinking behaviors.

Global Trends in Alcohol Consumption:

Alcohol consumption has been a ubiquitous aspect of human culture, with patterns evolving alongside societal changes. In ancient civilizations, fermented beverages held religious, social, and economic significance. The industrial revolution and modernization led to increased production, distribution, and consumption of alcohol globally. Currently, alcohol consumption remains widespread, with variations in levels and patterns across regions. Developed countries typically exhibit higher consumption rates, but emerging economies are experiencing rapid increases as well.

Several factors influence global alcohol consumption trends. Socioeconomic factors, including income levels and employment opportunities, play a significant role, with higher-income individuals and countries generally consuming more alcohol. Cultural norms and traditions dictate acceptable drinking behaviors and social contexts, shaping consumption patterns. Marketing practices employed by the alcohol industry, such as advertising and sponsorship, influence consumption, especially among youth and vulnerable populations. Globalization has further facilitated the spread of drinking norms, contributing to shifts in consumption patterns worldwide. Understanding these factors is crucial for developing effective public health policies to address alcohol-related harm and promote responsible drinking behaviors globally.

Global Alcoholic Beverages Market, by Type



Alcohol consumption trends have undergone significant shifts over time globally. Historically, patterns varied widely, influenced by cultural practices, societal norms, and economic factors. However, in recent decades, there has been a noticeable increase in alcohol consumption worldwide. This surge can be attributed to several factors, including rising disposable incomes, urbanization, changing lifestyles, and aggressive marketing strategies by alcohol companies tapping into global markets. Cultural attitudes towards alcohol, such as its role in social settings and celebrations, also play a crucial role in shaping consumption patterns. Moreover, globalization has facilitated the spread of Western drinking norms to regions with historically low alcohol consumption rates. Despite efforts to regulate and mitigate alcohol-related harms, these trends persist, highlighting the complex interplay of socioeconomic, cultural, and commercial influences on global alcohol consumption.

Regional Variances in Alcohol Consumption:

Regional differences in alcohol consumption reflect a myriad of socio-cultural and economic factors. In Europe, for instance, the tradition of wine consumption is deeply ingrained in cultural practices, leading to higher per capita alcohol consumption compared to other regions. Conversely, religious and cultural norms in the Middle East and parts of Asia contribute to lower levels of alcohol consumption. Moreover, regulatory frameworks and taxation policies vary widely between regions, influencing patterns of consumption and alcohol-related harm.

Impact on Public Health:

The public health implications of alcohol consumption are profound and multifaceted. Excessive drinking is associated with a myriad of health consequences, including liver disease, cardiovascular disorders, mental health disorders, and an increased risk of accidents and injuries. Moreover, alcohol-related harm extends beyond individual health outcomes, encompassing broader societal impacts such as crime, violence, and economic burden on healthcare systems.



Policy Responses and Interventions:

Policy responses to regulate alcohol consumption include taxation, advertising restrictions, and

availability controls. Taxation strategies aim to increase prices, discouraging excessive drinking, while advertising restrictions limit alcohol marketing's influence, especially on vulnerable populations like youth. Availability controls, such as regulating sales hours and locations, also manage consumption. These approaches have shown effectiveness in reducing alcohol-related harm when properly implemented. Challenges include industry resistance and inadequate enforcement resources, while opportunities lie in multi-sectoral collaborations and evidence-based strategies. Balancing these factors can enhance the effectiveness of interventions and promote safer consumption environments globally.

Future Directions and Recommendations:

Emerging trends in alcohol consumption, including shifts towards online purchasing and alternative drinking venues, pose new challenges for public health. Further research is needed to understand these trends' full impact, particularly on vulnerable populations. Policymakers, public health professionals, and stakeholders should prioritize evidence-based interventions, such as taxation and targeted education campaigns, to address these evolving patterns. Collaboration between sectors and proactive data collection efforts are essential for developing effective strategies to promote responsible alcohol consumption and minimize associated harms in the future.

Conclusion:

In conclusion, alcohol consumption trends exhibit a complex interplay of global patterns and regional variances, influenced by a myriad of cultural, economic, and social factors. Understanding these dynamics is crucial for devising effective public health interventions and policy measures aimed at reducing alcohol-related harm. By acknowledging the diversity of drinking behaviors and adopting context-specific approaches, policymakers can work towards mitigating the adverse consequences associated with alcohol misuse on both global and regional scales.

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MAMTA BHARDWAJA

**Business Development Manager
(Wine Industry)**

“The Gin and Tonic has saved more Englishmen’s lives and minds, than all the doctors in the Empire.”

-Winston Churchill

Gin is a distilled alcoholic drink flavoured with juniper berries and other botanical ingredients.

The name gin is an abbreviation of the older English word genever, related to the French word genièvre and the Dutch word jenever. All ultimately derive from Juniperus, the Latin for juniper.

Gin originated as a medicinal liquor made by monks and alchemists across Europe. Gin became popular in England after the introduction of jenever, a Dutch and Belgian liquor. Although this development had been taking place since the early 17th century, gin became widespread after the 1688 Glorious Revolution led by William of Orange and subsequent import restrictions on French brandy. Gin emerged as the national alcoholic drink of England during the so-called Gin Craze of 1695–1735.

Gin is produced from a wide range of herbal ingredients in a number of distinct styles and brands. After juniper, gin tends to be flavoured with herbs, spices, floral or fruit flavours, or often a combination. It is commonly mixed with tonic water in a gin and tonic. Gin is also used as a base spirit to produce flavoured, gin-based liqueurs.

Production Method

Gin can be broadly differentiated into three basic styles reflecting modernization in its distillation and flavouring techniques.

Pot distilled -Pot distilled gin represents the earliest style of gin, and is traditionally produced by pot distilling a fermented grain mash (malt wine) from barley or other grains, then redistilling it with flavouring botanicals to extract the aromatic compounds. A double gin can be produced by redistilling the first gin again with more botanicals. Due to the use of pot stills, the alcohol content of the distillate is relatively low; around 68% ABV for a single distilled gin or 76% ABV for a double gin. This type of gin is often aged in tanks or wooden casks, and retains a heavier, malty flavour that gives it a marked resemblance to whisky. Korenwijn (grain wine) and the oude (old) style of Geneva gin or Holland gin represent the most prominent gins of this class.

Column distilled - Column distilled gin evolved following the invention of the Coffey still, and is produced by first distilling high proof (e.g. 96% ABV) neutral spirits from a fermented mash or wash using a refluxing still such as a column still. The fermentable base for this spirit may be derived from grain, sugar beets, grapes, potatoes, sugar cane, plain sugar, or any other material of agricultural origin. The highly concentrated spirit is then redistilled with juniper berries and other botanicals in a pot still. Most often, the botanicals are suspended in a "gin basket" positioned within the head of the still, which allows the hot alcoholic vapours to extract flavouring components from the botanical charge. This method yields a gin lighter in flavour than the older pot still method, and results in either a distilled gin or London dry gin, depending largely upon how the spirit is finished.

Compound gin - Compound gin is made by blending neutral spirits with essences, other natural flavourings, or ingredients left to infuse in neutral spirit without redistillation.

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Rohit Chauhan

Craft whiskey distillation techniques have captured the imagination of enthusiasts and connoisseurs alike, as artisans strive to produce unique and flavorful spirits through meticulous attention to detail and innovative practices. In this article, we delve into the intricacies of craft whiskey distillation, exploring the challenges faced by distillers and the rewards that come from mastering this ancient art.

The Art of Craft Whiskey Distillation

Craft whiskey distillation involves the transformation of grains into a spirit of exceptional character and complexity. Unlike large-scale industrial distilleries, craft distillers typically operate on a smaller scale, allowing for greater creativity and experimentation in the production process.

1. Mash Bill Formulation:

Craft distillers carefully select a combination of grains, known as the mash bill, to impart specific flavors and characteristics to the whiskey. Common grains used in whiskey production include corn, rye, barley, and wheat. The precise ratio of grains in the mash bill plays a crucial role in defining the whiskey's flavor profile.

2. Fermentation:

Once the mash bill is prepared, it undergoes fermentation to convert the starches in the grains into fermentable sugars. Yeast is added to the mash to initiate the fermentation process, during which alcohol is produced along with various flavor compounds. Craft distillers may employ different yeast strains and fermentation techniques to achieve desired flavor profiles and fermentation kinetics.



3. Distillation:

Distillation is the heart of whiskey production, where the fermented mash is heated to separate alcohol from water and other impurities. Craft distillers use traditional pot stills or modern column stills to perform distillation, each method offering unique advantages and challenges. Pot stills are favored for their ability to capture rich and robust flavors, while column stills allow for greater efficiency and control over the distillation process.

4. Aging:

After distillation, the whiskey is aged in oak barrels to develop its character and complexity. The aging process allows the spirit to interact with the wood, imparting flavors of vanilla, caramel, and spice while mellowing harsh alcohol notes. Craft distillers often experiment with various types of oak barrels and aging conditions to achieve desired flavor profiles and maturation characteristics.

Challenges in Craft Whiskey Distillation

Craft distillers face several challenges in the pursuit of producing exceptional whiskey:

1. Quality Control:

Maintaining consistency and quality across batches poses a significant challenge for craft distillers, who may lack the resources and infrastructure of larger distilleries. Rigorous quality control measures are essential to ensure that each batch meets the distiller's standards and expectations.

2. Time and Patience:

Whiskey production is a time-intensive process that requires patience and careful attention to detail. Craft distillers must be willing to invest the necessary time and resources in aging their spirits properly, knowing that the rewards of patience will be reflected in the final product.

3. Market Competition:

The craft whiskey market is highly competitive, with new distilleries entering the scene regularly. Craft distillers must distinguish themselves through innovation, quality, and storytelling to capture the attention of consumers and stand out in a crowded marketplace.

The Rewards of Craft Whiskey Distillation

Despite the challenges, craft whiskey distillation offers numerous rewards for those willing to embrace the craft:

1. Flavor Diversity:

Craft distillers have the freedom to experiment with unique mash bills, fermentation techniques, and

aging processes, resulting in a diverse range of whiskey styles and flavor profiles. Each distillery's offerings are a reflection of its creative vision and dedication to craftsmanship.

2. Artisanal Quality:

Craft whiskey is often celebrated for its artisanal quality and attention to detail. By focusing on small-batch production and hands-on techniques, craft distillers can imbue their spirits with a level of care and craftsmanship that sets them apart from mass-produced counterparts.

3. Community Engagement:

Craft distilleries often foster a sense of community and connection among enthusiasts, who appreciate the opportunity to interact directly with the makers and learn about the production process firsthand. Tasting rooms, tours, and events provide opportunities for consumers to engage with the brand and develop a deeper appreciation for craft whiskey.

In conclusion, craft whiskey distillation represents a blend of tradition, innovation, and passion, where artisans strive to create spirits of unparalleled quality and character. While the journey may be challenging, the rewards of mastering the craft are rich and fulfilling, offering enthusiasts a glimpse into the artistry and artisanship that define the world of craft whiskey.



Press Release

A UP based startup says Cheers to a new invention - an Anti-hangover functional water.

Drinking water comes in many forms. But, water that has the function of Anti-hangover certainly deserves attention.

Danta Venturres, a women-owned and managed enterprise is able to do just that.

According to the company, this is made possible with two key plants: Milk Thistle and Tamarind.

In Ayurveda, Milk Thistle is known as "Varaka" and is used to improve liver function, balance hormones, and promote overall health. It is believed that Milk Thistle powder helps to cool the body, reduce inflammation, and detoxify the liver, making it an essential herb in Ayurvedic medicine.

In Ayurveda Taramind extract is known as "Tatri". It relieves nausea, dizziness, headaches, tension, bloating and speeds up detoxification of the liver.

Despite the known properties of these two highly effective powerful ingredients, it was a challenge to harness the key ingredients in their purest form to enable them to be infused into water without changing its colour or taste or potability. Direct mixing of these ingredients with alcohol was another hurdle.

According to the team at Danta Venturres Pvt Ltd, research has been going on for years in Nanotechnology to bring out the best of Ayurvedic and Natural herbs by leveraging its deep expertise in the science to overcome these road blocks and launched its flagship product, 'ShawRab' - a functional water that not only prevents hangovers but also aids in protecting the liver.

The patent-applied manufacturing process entails molecular-level engineering to optimize oxygen and hydrogen with the key nano extracts to create a powerful Anti-hangover water that can be mixed directly with alcohol.

Shuchi Tandon, the CMD of the company said, "There are many Anti-hangover products in the market. But they are either vitamins or electrolytes or curcumin extracts. These products are taken as a medication rather than a preventive, and pleasant water. That's why ShawRab functional water stands out as it can be directly mixed with alcohol or enjoyed separately"

The product will be available on One litre bottles, and will be in liquor stores and bars soon.

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ROLE OF GLUCOAMYLASE

Introduction:

Glucoamylase plays a crucial role in grain-based distillery processes, particularly in the conversion of starch into fermentable sugars. In the context of distillation, glucoamylase is utilized in the saccharification step, where it breaks down complex starch molecules into simpler sugars such as glucose. This enzymatic conversion is essential because yeast, which is used in the fermentation process, can only metabolize simple sugars.

Here's how glucoamylase functions in a grain-based distillery:

Mashing: In the initial mashing process, grains such as barley, corn, wheat, or rye are mixed with water and heated to break down the starches present in the grains into simpler sugars. Typically, malted grains contain natural enzymes like amylase, which initiate this process. However, in some cases, additional glucoamylase is added to ensure complete conversion of starches into fermentable sugars.

Saccharification: Glucoamylase plays a key role in the saccharification step of the distillation process. After mashing, the resulting mash is transferred to a vessel where glucoamylase is added.

This enzyme specifically targets the remaining starches and breaks them down into glucose molecules. Glucose is a monosaccharide that can be readily fermented by yeast.

Fermentation: Once the starches are converted into fermentable sugars, yeast is introduced to the mash. Yeast metabolizes the glucose, producing alcohol (ethanol) and carbon dioxide as byproducts. This fermentation process typically occurs over several days, depending on factors such as temperature, yeast strain, and the concentration of sugars in the mash.

Distillation: After fermentation, the resulting liquid, known as "wash" or "beer," undergoes distillation to separate alcohol from water and other components. Glucoamylase ensures that a high proportion of the starches in the grain are converted into fermentable sugars, which ultimately results in higher alcohol yields during distillation.

In summary, glucoamylase is critical in grain-based distilleries as it facilitates the conversion of complex starches into fermentable sugars, which are then metabolized by yeast to produce alcohol. This enzymatic process is essential for maximizing alcohol production efficiency and maintaining consistent product quality.



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RISE OF CRAFT DISTILLERIES

Introduction

The rise of craft distilleries represents a significant trend in the spirits industry over the past few decades. Here are several factors contributing to this phenomenon:

Consumer Preferences: Consumers have increasingly shown interest in unique, high-quality, and locally-produced products. Craft distilleries offer small-batch spirits with distinctive flavors and artisanal craftsmanship, catering to the preferences of discerning consumers who seek authenticity and variety.

Craft Movement: The craft movement, which initially gained momentum in sectors like brewing (craft beer) and food, has expanded into distilling. This movement emphasizes traditional methods, hands-on production, and a focus on quality over quantity. Craft distilleries often prioritize using locally-sourced ingredients and experimental techniques to create distinctive spirits.

Legislative Changes: In some regions, legislative changes have facilitated the growth of craft distilleries by reducing regulatory barriers and licensing requirements. These changes have made it easier for small-scale producers to enter the market and operate legally, fostering a more diverse and dynamic spirits landscape.

Market Demand for Innovation: Craft distilleries are known for their innovation and willingness to experiment with different ingredients, aging techniques, and flavor profiles. This creativity appeals to consumers seeking new and exciting spirits experiences, driving demand for craft products in the marketplace.

Local and Authentic Appeal: Craft distilleries often have strong ties to their local communities, reflecting regional traditions, cultures, and flavors. This localized approach resonates with consumers who value authenticity, traceability, and supporting small businesses in their communities.



Priyanshi Sharma

Tourism and Experience Economy: Many craft distilleries offer tours, tastings, and other experiential activities, attracting tourists and enthusiasts interested in learning about the distillation process firsthand. This focus on experiential tourism contributes to the growth of craft distilling as a cultural and economic phenomenon.

Access to Information and Resources: Advances in technology and the internet have made it easier for aspiring distillers to access information, resources, and networking opportunities. Online forums, educational resources, and industry events provide valuable support and guidance for individuals interested in starting their own craft distillery.

Overall, the rise of craft distilleries reflects evolving consumer preferences, changing market dynamics, and a growing appreciation for craftsmanship, innovation, and local authenticity in the spirits industry. This trend has reshaped the landscape of the distilling sector, offering consumers a diverse array of high-quality and distinctive spirits to enjoy.





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