











Products Catalog

Yeast & Baking
Yeast Extract -Savoury
Distilled Spirits & Biofuels
Microbial Nutrients
Human Health
Animal Nutrition
Plant Nutrition
Enzymes

Who we are

Angel Yeast was founded in 1986, it originated from the China National Yeast Research Center.

Angel Yeast Co., Ltd was listed on the Shanghai Stock Exchange in 2000. As one of the leading companies in the worldwide yeast industry, we are committed to the mission of developing yeast biotechnology and innovating healthy life.

Our business activities range from baking to food taste, nutrition & health, and biotechnologies. Our products are available in more than 155 countries.









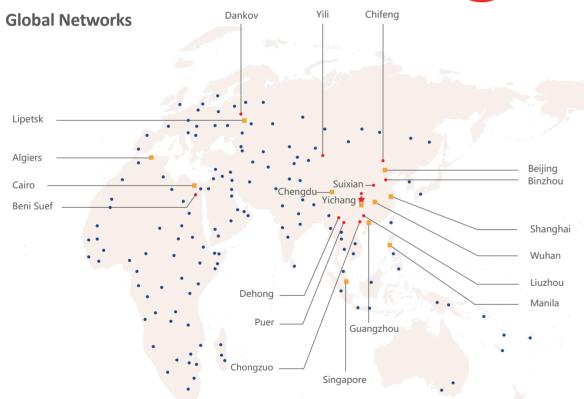
Focus on Yeast Biotechnology Innovate for Healthy Life













Headquarters



Production bases



Applied science service centers



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Yeast & Baking Baker's Yeast Yeast Yeast Baking

Angel advocates the idea of natural, nutritious and healthy diet. Angel's baking products cover baker's yeast, bread improver, premix and other baking ingredients. All products are manufactured under strict process controls in order to satisfy the customers' requirements on the safety and consistency. Through the close cooperation with teams of R&D, manufacturing and customer service, Angel becomes the specialized problem solver for the technical and marketing services in the bakery industry.



Instant Dry Yeast

Feature: Consistent quality, fast fermentation. / Excellent oven spring. / Wide application. / Long proofing tolerance. **Type:** High sugar / Low sugar **Shelf Life:** 24 months

Industrial baking packaging

Pack size: 100g*60, 125g*12*6, 450g*20, 500g*20, 5kg*2,10kg,15kg, 20kg



Special Instant Dry Yeast

- · Instant Yeast for Pizza
- · Instant Dry Yeast for Non
- · Instant Dry Yeast for Rich dough
- \cdot Super 2 in1 Instant Dry Yeast (High sugar / Low sugar)

Pack size: 500g*20



Household baking packaging

Pack size: 10g*48*6, 10g*25*12, 11g*5*60, 15g*300, 20g*300



■ Semi-dry Yeast

Feature: Same applicability as fresh yeast but same shelf life as Instant dry yeast. / Recommended for frozen dough process.

Type: High sugar / Low sugar **Shelf Life:** 24 months at -18°C (0°F)

Pack size: 454g*20, 1kg*10, 5kg*2



■ Semi-dry Yeast

Feature: Same applicability as fresh yeast but same shelf life as Instant dry yeast. / Recommended for frozen dough process.

Type: High sugar / Low sugar Shelf Life: 24 months at -18°C (0°F)

Pack size: 454g*20, 1kg*10, 5kg*2



IMPROVE THE TEXTURE

A66

A300

A800

Bread Improver (vacuum package)

EXTEND THE SHELFLIFE

A-66

A-300

INCREASE BREAD VOLUME

A-66

A-800

A-555

A-1000

Bread Improver (vacuum package)

INCREASE BREAD SOFTNESS

Super Soft Bread Improver

A-66

A-300

Bread Improver (vacuum package)



A-66

Feature: Make the dough easy to handle, increase bread volume, improve the texture, extend the shelflife.

Usage: mix well with flour **Dosage:** 0.2-0.6%

Packing: 600g*20



A-300

Feature: Stabilize flour's quality, improve the texture,

extend the shelflife.

Usage: mix well with flour

Dosage: 0.3-0.4%

Packing: 300g*20



A-800

Feature: Strengthen the gluten, increase the bread

volume, improve the texture. **Usage:** mix well with flour

Dosage: 0.5%
Packing: 1kg*10



A-555

Feature: Improve gluten, increase bread volume.

Usage: mix well with flour

Dosage: 0.3-0.5% **Packing:** 500g*20



A-1000

Feature: Increase bread volume, improve the texture,

cost-efficient.

Usage: mix well with flour Dosage: 0.3-0.5% Packing: 1kg*10



Bread Improver (vacuum package)

Feature: Increase bread softness, excellent effect against

bread staling.

Usage: First blend improver with flour well and then add

water to mix all.

Dosage: 0.3-0.5% on weight of flour

Packing: 500g*20



Super Soft Bread Improver

Feature: Increase bread softness, excellent effect against

bread staling.

Usage: mix well with flour

Dosage: 0.6-1% Packing: 5kg*2



CONCENTRATED BREAD IMPROVER

For sweet dough:

CS-02, CS-04

For lean douth:

CL-01, CL-02, CL-05

LD-300

LD-500



LD-300

Feature: Increase bread volume, improve crisp of breadcrust.

Usage: mix well with flour

Dosage: 0.3%
Packing: 300g*20



LD-500

Feature: Increase bread volume, improve crisp of breadcrust.

Usage: mix well with flour

Dosage: 0.3-0.5% **Packing:** 1kg*10



CS-C

Feature: For kinds of sweet dough, concentrated recipe,

Increase bread volume, cost-efficient. **Dosage:** 0.05 % on weight of flour

Packing: 25g*200



CS-04

Feature: For kinds of sweet dough, concentrated recipe,

cost-efficient. **Dosage:** 0.02%

Packing: 10g*50*8



CL-01

Feature: Increase bread volume, improve crisp of bread crust. **Usage:** Put the improver in water and mix well or premix

with part of flour, then mix well with other flour. **Dosage:** 10g (1 sachet) for 50~100kg of flour

Packing: 10g*50*8



CL-02

Feature: Increase bread volume, improve crisp of bread crust. **Usage:** Put the improver in water and mix well or premix with part of flour, then mix well with other flour. **Dosage:** 0.02% or 10g (1 sachet) for 50kg of flour

Packing: 10g*50*8



CL-05

Feature: Increase bread volume, improve crisp of bread crust. **Usage:** Put the improver in water and mix well or premix with part of flour, then mix well with other flour. **Dosage:** 0.05% or 25g (1 pack) for 50kg of flour.

Packing: 25g*50*4

FOR HAMBURGER

H-800



Bread Improver

H-800

Feature: Make dough easy to extend and operate, improve

the texture, increase the yield. **Usage:** mix well with flour

Dosage: 0.5%
Packing: 1kg*10

FOR CRUMB

Crumbs Bread Imporver



Crumbs Bread Imporver

Feature: Increase bread crumbs softness and elasticity,

keep good shape of final product. **Usage:** mix well with flour

Dosage: 0.4-0.8% **Packing:** 1kg*10



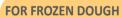
Dough Relax Agent (GSH05)



Dough Relax Agent GSH05 (Inactive Yeast)

Feature: Reduces tearing and shrinkage when molding or sheeting dough. Improves the machinability of the dough.

Usage: mix well with flour Dosage: 0.1-0.3% Packing: 5kg*2, 20kg*1



Frozen Dough Improver F-99 Croissant bread improver



Frozen Dough Improver F-99

Feature: Reduce the damage of frozen dough during the storage and increase volume of bread, extend shelf life of frozen dough, give frozen dough extra gluten.

Usage: mix well with flour

Dosage: 0.5-2% Packing: 1kg*10



A-PLUS Pastry

Feature: Increase extensibility of dough and reduce the shrink of dough; sncrease volume of finished bread and give croissant better layers; suitable for the procedure of frozen croissant.

Usage: mix well with flour

Dosage: 0.5-2% Packing: 1kg*10



Paste Bread Emulsifier

Feature:

Suitable for making soft bread.

Improving the extensibility and operability of dough.

Significantly increase the bread's volume.

Effectively preventing the bread from staling.

Improving the bread's texture.

Dosage: 0.8-2% by flour

Shelf life: 12 months

Pack size: 20kg



Release Agent

Feature:

High release power.

Specially developed for use with hot baking tins (50°C).

Based on vegetable oil and waxes.

Dosage: 0.8-2% by flour Shelf life: 15 months Pack size: 20L, 210L



Shortening

Feature:

Multi purpose and economical shortening.

Wide range of melting point, suitable for bakery, hotel and restaurant.

Dosage: 0.8-2% by flour Shelf life: 18 months Pack size: 15kg



Magarine

Feature:

Multi purpose margarine with fruity flavor.

Best choice for home and big industry that ensure cost competitiveness.

Dosage: 0.8-2% by flour Shelf life: 18 months Pack size: 15kg **Yeast & Baking Yeast & Baking** Pastry and Others Pastry and Others

Baking Powder (Aluminum free)

Feature: Aluminum free / Double acting / Big volume / Fine texture

Shelf life: 24 months

Pack size: 10g*48*12, 18g*200, 1kg*10, 5kg*2, 10kg, 25kg



Baking Powder (Aluminum free)

Feature: Double acting / More powerful / Cost saving

Shelf life: 24 months

Pack size: 100g*72, 1lb*18, 8lb*6, 10kg, 20kg



Cake Improver (Cake Gel)

Shelf life: 12 months

Pack size: 1kg, 5kg, 10kg, 20kg



Cream of Tartar

Feature: Easy to use. Shelf life: 18 months

Pack size: 1kg*10



Custard Powder

Feature: Easy to use. Shelf life: 18 months

Pack size: 300g*24, 400g*12,

1kg*10







Cake Improver (Cake Gel)

Shelf life: 12 months **Pack size:** 1kg*10, 5kg*2, 25kg



Non-Dairy Creamer powder

Feature: Good whipping performance and stability; Suitable for making cream products, cold drink and other bakery products. **Shelf life:** 18 months **Pack size:** 25kg



Sodium bicarbonate (baking soda)

Feature: Food grade leavening agent; Widely used in bakery, biscuit and food industry.

Shelf life: 24 months Pack size: 25kg



Ammonium bicarbonate

Feature: Food grade leavening agent; Widely used in biscuit and food industry. Shelf life: 24 months

Packing size: 25kg



Ammonium bicarbonate

Feature: Food grade leavening agent; Widely used in biscuit and food industry. Shelf life: 24 months Packing size: 25kg



Yeast & Baking

Food Ingredients and Others

Food Ingredients and Others

Yeast & Baking

Sesame

Feature: Suitable for making hamburger
Uniform and full particle
Shelf life: 12 months Pack size: 25kg



Raisin

Feature: Confectionary grade
Suitable for seed Bread and other bread
Shelf life: 12 months Pack size: 25kg



Pumpkin Seed Kernel

Feature: Suitable for seed Bread and other bread Natural, Nutritious and Healthy Shelf life: 12 months Pack size: 12.5kg, 25kg



Sunflower Seeds Kernel

Feature: Confectionary grade
Suitable for seed Bread and other bread
Shelf life: 12 months Pack size: 12.5kg, 25kg



Watermelon seed kernel

Feature: Good quality, different size is available
Baked or roasted for immediate eating
Shelf life: 12 months Pack size: 12.5kg, 25kg



Goji Berry

Feature: Bright red color
Suitable for healthy food and bread.
Shelf life: 12 months Pack size: 5kg*4



Dried Cranberry

Feature: Unique taste, nutrition and healthy
Non-discoloring and remain intact in use.
Shelf life: 12 months Pack size: 25lb



Red Bean Paste

Feature: Original red bean taste
Without any food additives

Shelf life: 12 months Pack size: 500g*20, 5kg*4



Others

Products Name	Feature	Shelf life	Packing size
Vital wheat gluten	Protein ≥82% (N×6.25 Dry basis) Widely used in flour and food industry	24 months	25kg
Vanillin	Edible flavors, widely used in food industry Strong fragrance of Vanilla Beans and milk	24 months	500g*40, 25kg
Milk Powder (WMP and SMP)	Suitable for bakery and other food Nutritious and good quality	24 months	25kg
Soybean flour	Non-GMO defatted soybean flour Used in bakery , pasta, meat and other food products.	24 months	25kg
Calcium Propionate	Food grade preservative High purity, good performance	24 months	1kg*20, 20kg, 25kg
Ascorbic Acid (Vitamin C)	Food grade, Antioxidants Widely used in flour and food industr	36 months	25kg
Potassium sorbate	Food grade preservative Widely used in food industry	24 months	25kg
Distilled monoglyceride	Multi-purpose food grade emulsifier Cost saving	24 months	25kg

Yeast & Baking Chinese Dimsum / Baking Tools

Yeast Extract - Savoury



Mantou Improver

Feature: Improve the whiteness and internal texture of Mantou. Better softness, freshnss and Less dosage.

Dosage: 0.3-0.5%

Shelf life: 18 months

Pack size: 15g*50*4, 300g*20, 500g*20



Youtiao Raising Agent

Feature: Healthy and improve the quality stability.

Convenient to use.

Make Youtiao crispy.

Aluminum-free.

Dosage: 2-3% of the flour Shelf life: 24 months

Pack size: 20g*50*4, 250g*20, 300g*20, 500g*20



Sweet Rice Leaven

Feature: The selected strains is nature and safe.

Easy and convenient.

Good taste and nutritious.

Dosage: 0.3-0.4% Shelf life: 18 months

Pack size: 8g*2*20*4, 8g*5*60, 8g*300



Steamed Stuffed Bun Flavor Adjusting Stuffing

Feature: Apply to the fresh steamed stuffed bun and pork dumpling.

Easy and convenient.

Good taste and nutritious.

Dosage: 8-10% Shelf life: 18 months Pack size: 1kg*10



Dumpling Flavor Adjusting Stuffing

Feature: The selected strains is nature and safe.

Easy and convenient.

Good taste and nutritious.

Dosage: 0.3-0.4% Shelf life: 18 months Pack size: 45g*20*4

Baking Tools (* Customized requirement is available.)

Flat Tray Bread Pan
Hamburger Tray TrolleyPizza Pan
Multi-link Cake Mould Cake Mould
Baguette Tray Silicone Mold





Yeast Extract, rich in amino acids, nucleotides, peptides, B vitamins and more, is a natural ingredient made from bakery yeast (saccharomyces cerevisiae).

Yeast extract has a savory flavor that is comparable to bouillon, which often makes it a suitable ingredient for savory products to add and bring out flavors and tastes in these products.



Basic YE

Туре	Features
KA02, KA65, KA66, LA00	Rich in amino acids and flavor peptides. Gives a well-rounded flavor, builds savory 100% water soluble. Salt content: 0-40%

builds savory taste foundation. Paste: 20kg, 25kg, 1000kg
Powder: 20kg, 400kg, 500kg

Pack size

Xian_{/Umami} Taste YE



7	Туре	Features	Pack size
	FIG606, FIG12LS, FIG22LS, KU012	Provide strong Xian taste and improve overall mouthfeel. Natural nucleotide content: 3-24% Ideal substitute for MSG. Beneficial in salt reduction. 100% water soluble. Salt content: 0-20%	Paste: 20kg, 25kg, 1000kg Powder: 20kg, 400kg, 500kg

Hou-feel YE



	Туре	Features	Pack size
de la	KK02, KA301, SG010	Provide Hou-feel, lingering taste in foods. Beneficial in fat/sugar reduction. 100% water soluble. Salt content: 0-40%	Paste: 20kg, 25kg, 1000kg Powder: 20kg, 400kg, 500kg

Flavor YE



Туре	Features	Pack size
VKA236, VKA246,	Give specific meaty notes.	Paste: 20kg, 25kg, 1000kg
TDK002	Salt content: 0-40%	Powder: 20kg, 400kg, 500kg

Dressings & Sauces

Applications	Туре	Dosage	Features
Soy sauce (additive-free)	KU012, FIG12LS, FIG18LS	0.5-1%	Xian/Umami flavor, Hou-feel/mouthfeel, balance salty taste.
Soy sauce (added MSG, I+G, sweetener)	KA262, FIG03, LT01, TS01	0.2-0.6% [powder], 0.5-1.0% [paste]	Improve Hou-feel/mouthfeel, round off all tastes.
Mayonnaise/ Salad dressing	KA301, KK02	0.3-0.8%	Improve Hou-feel/mouthfeel, mask off-notes, round off all tastes.
Oyster sauce	KA262,FIG03, LT01, TS01	0.2-0.6% [powder], 0.5-1.0% [paste]	Improve Hou-feel/mouthfeel, balance salty taste, round off all tastes.
Fish sauce	KU012, FIG03, LT01	0.1-0.3%[powder], 0.2-0.5%[paste]	Improve Xian/Umami flavor, Hou-feel/mouthfeel, balance salty taste.
Sweet chili sauce	KA262, KA301, FIG03	0.2-0.6%	Enhance Xian/Umami flavor, Hou-feel/mouthfeel, round off all tastes.
Tomato sauce	FIG03, KA301, KK02	0.3-0.8%	Enhance Xian/Umami flavor, Hou-feel/mouthfeel, round off all tastes.

Bouillon & Soups & Instant noodles

Applications	Туре	Dosage	Features
Beef bouillon	FIG03,KA02	1-5%	Enhance Xian/Umami flavor; Hou-feel/mouthfeel.
Chicken bouillon	KA66,KA02, FIG03	1-3%	Enhance Xian/Umami flavor; Hou-feel/mouthfeel.
Beef bouillon cubes	KA66,KU012	0.1-0.15%[KA66] 0.1% [KU012]	Enhance Xian/Umami flavor, and Hou-feel/mouthfeel.
Instant noodles	KU208,FIG03	2%	Improve Xian/Umami taste; Hou-feel/mouthfeel and well-rounded taste in soup base

Snacks & Seasonings

Applications	Туре	Dosage	Features
Seasoning for nut	KA66	0.5%	Enhance Xian/Umami taste, balance overall taste.
Seasoning for chip /nacho	FIG03,KU012	4-6% [FIG03] 2-4% [KU012]	Give Xian/Umami taste and Hou-feel/mouthfeel, balance overall taste.

• Ready meals & Frozen meat

Applications	Туре	Dosage	Features
Frankfurt sausage	KA66, LU103	0.2-0.3% [KA66] 0.5% [LU103]	Mask off-notes, bring out meaty notes, enhance Hou-feel/mouthfeel.
Steak	KA66, KU012	0.2-0.3% [KA66] 0.3% [KU012]	Enhance Xian/Umami flavor, bring out meaty notes.
Meatball	KA66, LU103	0.2-0.3% [KA66] 0.5% [LU103]	Off-notes masking, Hou-feel/mouthfeel enhancing, bring out meaty notes.
Barbecue steak	FIG03, LU103	0.2-0.3%	Off-notes masking, Hou-feel/mouthfeel enhancing, bring out meaty notes.
Skewer	KA66, LU103	0.2-0.3%	Improve meaty notes,Hou-feel/mouthfeel enhancing.
Frozen pre-cooked dish	FIG03, LU103	0.2-0.3%	Improve meaty notes, Hou-feel/ mouthfeel & lingering taste

Others

Applications	Туре	Dosage	Features
Soda crackers	KA301, FIG03	0.3-0.5%	Enhance baked aroma and Hou-feel / mouthfeel, improve overall taste.
Baguettes	FIG03, KA301	0.3-0.5%	20% salt reduction. Enhance baked aroma and Hou-feel/ mouthfeel, improve overall taste.
Toasts	KU012	0.3%	20% salt reduction without compromising the great taste.
Cakes	KK02, KU203	0.3-0.5%	Mask off-notes, improve the baked aroma and overall taste.

Distilled Spirits & Biofuels

Alcohol Yeasts

Distilled Spirits & Biofuels

We provides the appropriate products and services for fuel ethanol, alcohol, wine, beer, and other distilling and brewing liquor, and develope the products or technical support to satisfy the unique requirements of customers.

Angel brewing and distilling products include: super alcohol active dry yeast, thermal-tolerant alcohol active dry yeast, wine active dry yeast, beer active dry yeast, and leaven. Now Angel supplys the products for the manufactures using the starch and molasses as the fermentation material, and is making large efforts in developing the yeast product used for cellulosic alcohol fermentation.



Alcohol Yeasts

Product model	Descriptions	Pack Size
Angel Thermal Resistance Alcohol Active Dry Yeast	Resistant to high temperature, alcohol and acid, and can be widely applied in the alcohol, potable spirit brewing that adopts starch bearing materials as dry sweet potato, maize, rice, cassava, sorghum, etc. and saccharine materials as molasses, etc.	500g*20 10kg*1
Angel Super Alcohol Active Dry Yeast Molasses	Yeast strains with compound nutrient agents, and is applicable to the ethanol production that adopts molasses, sugar cane juice, beet juice, sweet sorghum and other saccharine materials. It has characteristics of being osmophilic, ethanol tolerance (15% v/v), acid tolerance (PH3.5), fast fermentation, etc.	5kg*2
Angel Super Alcohol Active Dry Yeast Starch	Yeast strains with compound nutrient agents, and is applicable when adopt corn, wheat and cassava as raw materials for alcohol high gravity fermentation. It has characteristics of strong reproductive ability, high fermentation speed, high tolerance to high ethanol concentration, etc.	5kg*2
Ethanol Active Dry Yeast E	It is selected for use in high-gravity fermentation at high sugar and alcohol concentrations. It works well at alcohol concentrations of more than 20% by volume(16% by weight) and in a temperature range of 30-35 \dot{C} . It tolerates high levels of organic acids and is well suited to use in "zero discharge" fuel ethanol plants.	500g*20 10kg*1
Super Turbo Yeast	It is a yeast and nutrient pack especially designed to produce alcohol with high fermentation speed and ferments to high alcohol levels. It is suitable for the fermentation with alcohol concentration of 13~18%.	10kg*1 250g*20



Beer Yeasts

beer te	asis						
Product Model	Туре	Temperature	Fermentation Speed	Alcohol Tolerance	Characteristic and Aromas	Best for	Better for
BF16	Lager	10°C-20°C	Moderate	10%	High alcohol tolerance, good flocculation, good flavor, rich foam, suitable for lager beer such as Pilsner.	Pilsner	Viennna lager
BF27	Lager	10°C-22°C	Moderate	10%	Good flocculation, better flavor, rich foam, fruity and floral aromas, suitable for lager beer.	Pilsner classical American beer	Viennna lager Munich dunkel
CN36	Ale	10°C-25°C	Fast	12%	Good flocculation, better flavor, rich foam, fruity and floral aromas, suitable for lager beer.	American pale ale IPA	Brown porter Barley wine
CS31	Ale	15°C-25°C	Moderate	14%	Quick start fermentation, aroma slightly estery, aslo suitable for bottom fermentation like lager but request low temperature.	Belgium saison Sweet stout	Wheat beer Dubble IPA
WA18	Ale	15°C-25°C	Fast	10%	Quick start, good flocculation, typical banana and slight spicy aromas, suitable for wheat beer styles and German Hefeweizen.	German wheat beer Weizen beer	American wheat be Weizen bock
CY115	Ale	18°C-22°C	Fast	10%	Displays slight ester and fruity aroma like tropical fruit and without any unpleased smell if properly handled. Help to present a bright and nice body.	Pale ale	Fruit beer

Distilled Spirits & Biofuels

Wine Yeasts

Wine Yeasts

Distilled Spirits & Biofuels



Wine Yeasts

Product model	Product model Characteristic	
CEC01	High quality red wines with smooth mouthfeel and fruity aroma.	
CECA	An excellent yeast for making the ageing red wine with elegant aromaand complex structure.	
RA-3	High-grade red wine with full mouth feel.	
BV818	Red or white wine, sparkling wine and restarting fermentation.	150-300ppm
RV100	Ice wine, high alcohol wine and fruit wine.	
RV171	Rose wine and high acid grape varieties fermentation.	
Others	Provide a variety of wine yeast(OEM).	

Yeast Derivatives

Product model	Ingredients	Characteristic	Dosage	
Mannoproteins MP60	Mannoproteins ≥ 40.0% Polysaccharides ≥ 60.0% Solubility ≥ 95.0%	Helps yeast to quickly start Malolactic fermentation, improve wine stability, improve taste and harmony, used for optimization wine, recommended for adding between aging and bottling.	100-300ppm	
Nutrient FN502	Yeast extract , 100% Solubility.	Provide amino acids, vitamins, minerals and growth factors, meet the needs of yeast metabolic.	150-300ppm	
Nutrient FN503	Yeast extract , 100% Solubility.	A very rich source of amino nitrogen (≥ 5.0%); provide nutrients for yeast growth and multiplication; improve wine fermentation.	150-300ppm	
Inactive Yeast FN405	Inactivated yeast. Protein 50.0-60.0%.	Provide nutrition and growth factors, inhibiting the oxidation of wine, extend wine life.	200-400ppm	
Nutrient FN502 GH	Yeast extract enriched with glutathione and free amino acids.	Provide nutrients and glutathione, provent grape must and wine oxidation, supply nutrients for yeast growth and multiplication.	150-300ppm	
Inactive Yeast FN401-GH	Inactivated yeast enriched with glutathione.	Provide yeast nutrition peptides, inhibit oxidation and aging of wine.	200-400ppm	
Nutrient FN301	Fully autolyzed yeast enriched with amino acids, minerals, vitamin.	Improve fermentation performance and grape varieties aroma, optimize the taste and texture.	200-400ppm	
Yeast cell wall CW201	Yeast cell wall Solubility 50.0%.	For fermentation lacking sterol and lipid, improve environment, reduce inhibitor, and protect yeast of high alcohol fermentation.	200-500ppm	
Yeast cell wall CW101	Yeast cell wall. Solubility 15.0-30.0 %.	Improve fermentation performance and grape varieties aroma, optimize the taste and texture.	200-500ppm	
Inactive Yeast FN401	Inactivated yeast. Protein ≥ 40.0%	Provide nutrition and growth factors, inhibiting the oxidation of wine, extend wine life.	200-400ppm	

Microbial Nutrients

Yeast peptone / Yeast extract / Yeast-derived

Microbial Nutrients

Angel Yeast is committed to provide fermentation industry with refined nutrient products for commercial production of biochemicals, pharmaceutical, probiotics, biocontrol agents and dehydrated culture media as well as food ingredients through microbial fermentation. Angel microbial nutrient products will enhance microbial growth and improve the yield and productivity of metabolites from various microorganisms.



Yeast peptone

Туре	Applications	Features
FP103	Replacement of animal origin peptone	• Rich in peptides • Protein content ≥ 80% • good solubility
FP102 FP101	Probiotics and biopharmaceutical fermentations	 Rich in peptides • Protein content ≥ 70% • solubility≥ 2% Rich in peptides • Protein content ≥ 70%

Yeast extract

Туре	Applications	Features
FM888 / FM885	Dehydrated culture media Biopharmaceutical fermentation	 Ultra-filtered • Solubility ≥ 30% • No phosphate sediment Low endotoxin • Good performance for protein expression
FM808		Rich in peptides
FM985	Probiotics fermentation	• Rich in nucleotides and peptides • Nucleotides ≥ 1%
FM502		• Rich in peptide and nucleotides • Nucleotides ≥ 3%
FM505		• Rich in nucleotides • Nucleotides ≥ 3%
FM803		Rich in free amino acids
FM408		Rich in vitamins
FM902 / FM923 / LD00 / LM800 / LM902 / FM904	Industrial fermentations Food and feed ingredients	Balanced nutrition Cost-effective

Yeast-derived

Туре	Applications	Features
YA801	Widely used in probiotics and bio-pharmaceutical Suitable for longer fermentations	Yeast extract with yeast cell wall
YP108		• High quality • Protein content ≥ 50%
YP600		• Cost-effective • Protein content ≥ 40%
YP200		• Brewer's yeast • Protein content ≥ 40%

Peptone

Туре	Applications	Features
FP410 Soy peptone	Probiotics fermentation	Non-GMO
FP316 Tryptone	Dehydrated culture media	• Rich in Protein content • Cost-effective
P328 Biological peptone	Probiotics fermentation	Biological peptoneHigh clarity in solutionNo phosphate sediment
FP326 animal sourced peptone	Dehydrated culture media	Industrial grade peptoneHigh protein contentCost-effective
FP321 animal sourced peptone		Rich in glycineProline and glutamic acidCost-effective
FP330 animal sourced peptone	Industrial fermentation Animal feed	High cost-effective animal source peptoneProvide basic nutrition
FP351 Fish peptone		 High clarity in solution Conducive to the purification of fermentation products.

Dehydrated culture media

Туре	Applications	Features
Vinegar starter	Liquid fermentation of vinegar	• Easy to use, fast acid production rate • High production efficiency
Mushroom medium	Liquid cultivation of mushroom	Accelerated spore germination and mycelial growth
Bacillus medium	Bacillus fermentation	Balanced nutrition
LB medium	E.coli culture	Standard products, widely used in the cultivation of common microorganisms in laboratories
TB medium	Protein expression	 Suitable for recombinant protein expression High expression efficiency Yield improvement
Tryptic soy broth	Vaccine fermentation	Rich in nutrientsBeneficial to industrial fermentation of hard-to-grow microorganisms
Streptococcus medium		Convenient to use

Human Health Main Products Human Health



Specialized in yeast and fermentation, AHH is committed to developing innovative, differentiated, science-based functional foods ingredients and customized solutions, to help our customers get enduring success, as well as contribute to a healthier and sustainable world together.



Gut Health

Angel® Saccharomyces Boulardii Angel® Saccharomyces cerevisiae

Vegetarian Diets

Angel® Nutritional yeast flakes
AnPro® Yeast protein
Angel® Inactive yeast (Brewer's Yeast)

Sport Nutrition/ Weight Management

Angel® Nutritional yeast flakes
AnPro® Yeast protein
Angel® Inactive yeast (Brewer's Yeast)

Antioxidant/ Anti-tumor

Angel® Selenium yeast
Angel® Glutathione-Yeast Extract

Immunity Health

Angel® Yeast beta-glucan Angel® Yeast RNA

Minerals/ Vitamins Fortified

Angel® Selenium yeast Angel® Chromium yeast Angel® Zinc yeast Angel® Copper yeast Angel® Vitamin D Yeast Angel® B-Vitamins yeast

Main Products

Product Name	Introduction	Features
Bettcan™ Yeast beta-glucan	The best natural ingredient for immune health	 The most effective beta-glucan for immunity enhancing Prevent upper respiratory infection Human clinical study ongoing World-wide successful market examples
Nutritinoal Yeast Flakes	Unique nutrients & flavor to vegetarian foods	 Essential nutrients and irresistible flavor for egan / Vegetarian / healthy lifestyle Derived from special non-GMO strain of Saccharomyces cerevisiae Natural and vegetarian source of complete vitamin B complex Naturally with a nutty cheesy flavor, the perfect cheese replacer

Product Name	Introduction	Features
AnPro™ Yeast Protein	Protein market game-changer	 Complete protein containing all essential amino acids High content of BCAA(branched-chain amino acid), good for muscle recovery High content of dietary fiber, good for gut health Slow protein, providing body amino acids continuously and steadily No risk of GMO and animal concerns Eco-friendly and sustainable Best substitute of plant protein & animal protein
Saccharomyces Boulardii	Yeast probiotic excellent at anti-diarrhea	 Comfort intestinal and improving intestinal flora Anti-diarrhea and antibacterial Stimulation of intestinal immune response Inhibiting infection of intestinal pathogenic bacteria
Selenium Yeast	The best source of organic Selenium	 High organic selenium content up to 2000mg/kg French CNRS test shows 100% organic selenium The bioavailability and safety of organic selenium is much higher than inorganic Containing all yeast nutrients: high quality protein, vitamins, minerals, dietary fiber
Glutathione Yeast Extract	The secret of beauty from within	 Most well-known active for anti-oxidant Activate skin collagen synthesis Inhibiting tyrosinase and melanin, contribute to skin whitening Anti-aging, detoxication & protect liver health



Angel Nutritech Dietary Supplements

Angel Nutritech is a leading brand in Chinese early life nutrition industry.

Adhering to the business philosophy of "Conscience, Love & Wisdom", it has established an efficient marketing network all over the country, to provide nutritional supplements and professional services to the consumers.



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Animal Nutrition GroPro YeaMOS / YeaSe1 Animal Nutrition



Angel Animal Nutrition is committed to developing natural, efficient microbial feed derived from yeast with our industry-leading technology, providing the best service solutions for animal nutrition and health. We create value for global feed and animal husbandry customers through continuously upgraded products and professional services.



GraPro

Functional Nucleic Acid & Protein for Young Animals

A functional nucleic acid and protein source for young animals. It had been widely used to increase palatability, improve gut health, replace SOPP, improve production performance.

Applications	Properties
For Swine	Piglet (2-7kg): 1.0-3.0%. Alternative to SOPP, Palatability, immunity, growth is similar to SOPP, no bio-security risks. It can increase feed intake and growth rate in non-SOPP feed. Piglet (7-30kg): 0.3-0.5%. Relieve weaning stress, increase feed intake and promote growth.
For Poultry	Broiler (Pre-starter, 1-10d): 1.0-2.0%. Improve intestinal development, promote growth and feed conversion ratio, reduce mortality and stable production. Layer (Starter, 0-6w): 0.5-1.0%. Improve intestinal development, Improve SW and better skeleton, stimulate genetic potential.
For Aqua	Functional protein source: 1.0-3.0%. Increase feed intake, promote intestinal development and repair intestinal damage, enhance non-specific immunity, reduce fishmeal dependence and stabilize feed quality.
For Ruminant	Dairy Cow: 10-20 g/(d.h) Regulate rumen microbes and strengthen the function of rumen, improve feed efficiency and organic matter digestibility and improve milk yield. Calves: 5-1.0 g/(d.h). Promote rumen development, prevent calf diarrhea, stimulate immunity, control disease.

YeaMOS Ana

Natural source of Beta-Glucan & MOS

A natural yeast cell wall derived from yeast *Saccharomyces cerevisiae*. The main efficient ingredients are B -glucan and mannan oligosaccharide, which can increase immunity, block pathogens and bind mycotoxins (especially Zearalenone).

Applications	Properties
For Swine	1.0-2.0kg/t. Increase immunity, relieve stress (weaning, transport), stabilize production, prevent disease, replace AGPs, bind mycotoxins, reduce the harm of mycotoxins to sow reproductive.
For Poultry	0.5-1.0kg/t. Increase immunity, prevent disease, reduce mortality and stabilize production. Block pathogenic bacteria and reduce the harm of mycotoxins to poultry.
For Calves	1.0kg/t. Improve rumen development and reduce diarrhea.
For Aqua	1.0-2.0kg/t. Improve the survival rate under stress.

YeaSel

Selenium Yeast 2000ppm & 3000ppm

Organic selenium, which produced by submerged fermenting *Saccharomyces cerevisiae* in a selenium-rich media, and is a recognized source of organic form selenium nutrient for animals.

	Applications	Properties
	For Swine	100-1509/t. Anti-stress (weaning, transport, environmental change), improve meat quality, reduce meat drip loss and prolong shelf life, Improve reproductive performance.
	For Poultry	50-1509/t. Increase anti-oxidat1on capacity and relieve heat stress for broiler. And it can stable laying rate, improve the quality of egg and improve the hatchability of egg.
_	For Ruminant	200-3009/t. Prevent mastit1s and decrease somatic cell count in milk, improve conception rate and reproductive performance.
	For Aqua	100-1509/t. Anti-oxidation, relieve stress, stable production performance.

YeaVita

Live Yeast Probiotics

A high purity live yeast product for animals which is produced by submerged fermentation of specially selected strains of *Saccharomyces cerevisiae* from animal intestine or rumen. Which can adapt to improve the feed digestion via regulating the intestine microflora or rumen microflora.

Proudcts	Applications	Properties		
YeaVita .	For Swine	500-10009/t. Improve feed digestibility, prevent diarrhea, enhance sow lactation, increase weaning weight and relieve sow constipation.		
	For Poultry	200-300g/t. Balance intestinal flora, improve feed conversion, decrease intestinal disease such as watery stools, and increase production performance.		
YeaVita R For Dairy Cow 4-5 g/(d.h). Improve fiber digestibility, Stable rumen pH, pmilk yield (5%).		4-5 g/(d.h). Improve fiber digestibility, Stable rumen pH, prevent acidosis, enhance milk yield (5%) .		
YeaVita+ Coate		Coated and heat stable live yeast, it can tolerate the process of pellet feed.		

BioBon

Mycotoxin Binder

A yeast base Mycotoxin Binder that protect animal health by deactivating mycotoxins through detoxification, deintoxication, bio-degradation and immunostimulation.

Applications	Properties
For Swine 1.0-2.0kg/t. Absorb mycotoxins, reduce the harm of mycotox1ns to sow reproduction performance.	
For Poultry	0.5-1.0kg/t. Absorb mycotoxins, increase immunity, stable production performance.
For Ruminant	10-159/head/d or 1.0kg/t TMR. Reduce the harm of mycotox1ns and increase milk yield.

YeaSense

Natural Antimicrobial, a kind of Yeast Essence capable of producing zone of inhibition.

It is a new AGPs alternative.

Applications	Properties	
For Swine	500-800g/t	
For Poultry	200-500g/t	
For Aqua	300-500g/t	
For Calf	500-800g/t	

Inactive Yeast

A yeast protein source, which contain 100% yeast cells and provide high quality microprotein and B vitamins. Divided into Inactive baker's yeast and brewer's yeast according the different source.

Beta-Glucan

Concentrated beta glucan (≥70%) derived from cell wall of specially fermented Saccharomyces cerevisiae, which can improve immunity, control diseases, improve animal health and performance.

Bacillus Subtilis

A probiotic feed additive, produced by liquid fermentation with a selected strain, which can adjust microflora balance in animal intestines and stomach, improve animal performance, enhance immunity and reduce stress.

Bacilo Licheniformis

A probiotic feed additive, produced by liquid fermentation with a selected strain of Bacillus Licheniformis, which can help to maintain animal digestion tract health, and effective to cure enteritis.

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Angel is the founder of yeast sourced organic fertilizer, and the products all have passed through attestation of inputs suitable for use in Organic Farming according to (EC) n° 834/2007 & 889/2008 Regulations, the National Organic Program (NOP), the Japanese Agricultural Standard (JAS) and China Organic Certification.



CMS Powder (China)



Physico-chemical	Functions	
Total nitrogen (on dry)	≥2.0 %	 Kinds of nutrition and
K₂O (on dry)	≥8.0 %	timely supply.
Moisture	≤4.0%	 Improvement of nutrients
Organic matter (on dry)	≥55%	balance in the soil.
Fulvic acid (on dry)	30-35%	balance in the son.
pH value	4.5-6.0	 Complement organic
Ash	≤40.0%	matter, activate available
Lead	≤2.0 mg/kg	Microorganisms.
Arsenic	≤15.0 mg/kg	

• Organic fertilizer (FY-9) Granular



Physico-chemical Char	Physico-chemical Characteristics		
Total nitrogen (on dry)	≥2.0 %	 Kinds of nutrition and 	
K2O (on dry)	≥8.0 %	timely supply.	
Moisture	4.0%	 Improvement of nutrients 	
Organic matter (on dry)	≥45%	balance in the soil.	
Fulvic acid (on dry)	20-30%	balance in the 30ii.	
Mg	2%	 Complement organic 	
Betaine	3-5%	matter, activate available	
pH value	4.5-8.0	Microorganisms.	
Lead	≤2.0 mg/kg		
Arsenic	≤15.0 mg/kg		

• Organic Fertilizer with Tobacco (Granular)



naracteristics	Functions
≥1.5 %	 Protect crops from underground
≥1.5 %	pests (mole crickets, meloidogyne,
≤15.0%	grubs and etc.).
≥60%	 Helps to decrease the application of
30-40%	pesticides, is safe and residue free.
5.0-8.0	 Improve the quality of soil and
≤2.0 mg/kg	crops, increase the quality and
≤15.0 mg/kg	quantity of harvests.
	≥1.5 % ≤15.0% ≥60% 30-40% 5.0-8.0 ≤2.0 mg/kg

• 5% Organic fertilizer (granular)



Physico-chemic	al Characteristics	Appearance
NPK	≥5%	Dark brown, granular
Organic matter	≥45%	Dark brown, granular

Application: Apply 120-180kg/ha 5-7 days before application of chemical fertilizers and keep thesoil wet after application. It can be used as base and additional fertilizer. Apply with mineral fertilizer for better effect.

Angel Nitrogen fertilizer Granular (NPK: 15-0-5)



Physico-chemical Cha	aracteristics	Functions
Total nitrogen (on dry)	≥15 % ≥5 %	• Satisfy the requirements of crops, improve crop growth, buds fatness,
K2O (on dry) Moisture	≥5 % ≤4.0%	roots strength, well leaf photosynthes • Increase the total biomass and
Mg	≥1%	economic output, improve the
S	≥14%	nutritional value of agricultural
pH value	5.5-8.0	products, especially increase the protein content in seeds, improve the
Solubility	99-100%	nutritional value of food.

Trading products

Application: Raw materials for agriculture and chemical industry.

Main products: Urea, Urea Phosphate, MAP, DAP, MKP, NOP, Phosphoric Acid, DKP, etc.

Enzymes for Food
Enzymes for Food



Focusing on the R&D and promotion of special enzymes and biological products, to tap into the infinite possibilities of enzyme technology in the baking, food taste, brewing, animal feed, pharmaceutical and chemical industries; meanwhile, it gives full play to the advantages of Angel's biological flexible manufacturing to provide client-oriented services for enterprises in the fermentation field.



Enzymes for yeast protein

Enzymes for the production of yeast extract

- High dissolution rate and yield
- High content of amino acid and flavor nucleotide, lessbitter taste and strong flavor

Complex Enzyme FF106 / EF108 Papain PA-2 Nuclease NP1 Deaminase D-100

Enzymes for yeast cell wall processing

- Improve the extraction rate of yeast extract
- Promote the decomposition and obtain functional yeast polysaccharides

β-glucanase SF

Enzymes for animal protein

Enzymes for the production of savory flavoring

- Bitter weakening
- Hold characteristic flavor of animal protein
 Complex Enzyme EF108/ FF106 Papain PA-2

Enzymes for the production of pet palatability

- Enhance the attractant of pet food
- Hold characteristic flavor

Complex enzyme PF116 / FF104

Enzymes for the production of collagen

- High biological activity and good for absorption
- Pure taste in final product

Protease AP-200A/AP-200L Complex Enzyme FF106

Others

· Provide fine protease for food processing
Acid protease Neutral protease Alkaline protease

Enzymes for starch and nsp

Thermostable α-Amylase

- Resistance to high temperature and low pH
- Good stability
- No need to add additional calcium

α-Amylase AHA-400 / AHA-100T / AHA-200T / AHA-100D

Gluco-Amylase

- High sugar conversion rate
- High enzyme activity

Gluco-amylase GA-150 / GA-260 Solid gluco-amylase Complex enzyme DFT-04

Lactase

- Relieving lactose intolerance
- Production of low lactose dairy products

Lactase LAC100

Others

Pectinase Cellulase

• Enzymes for vegetable protein

Enzymes for soybean protein

- High biological activity and good for absorption
- Less bitterness in final product

Complex enzyme EF108 / FF106 Protease AP-200A

Enzymes for pnytone

 Hydrolysis of vegetable protein efficiently Protease AP-200A

Enzymes for hydrolysis of nucleic acid

Nuclease

• Hydrolyze RNA or single chain DNA into 5'-nucleotides Nuclease NP1

Deaminase

Hydrolyze 5'-AMP to 5'-IMP
 Deaminase D-100

Enzymes for Baking

• Provide a series of enzymes for baking

Product	Product		osage	Droportios
Name	Туре	For flour	For bakery products	Properties
Glucose oxidase	G0101	4-15 ppm	4-20 ppm	 Increased gluten strength; Improved the stability of dough; Improved finer crumb structure and volume of bread.
Xylanase	XYL200	10-60 ppm	20-60ppm	 Better dough extensibility; Better crumb structure and bigger volume; Improved handling properties.
Xylanase (Bacterial)	XYL50	20∼60ppm	5-40ppm	 Excellent extensibility and elastic performance; Excellent crumb structure; Strong improvement of volume of bread.
Lipase	LIP400	0-20 ppm	0-30ppm	Improves dough fermentation stability;Increases loaf volume;Excellent crumb structure.
Lipase	LIP100	3-20 ppm	3-20 ppm	 Partly replace emulsifier; Improved finer crumb volume; Enhance the softness of internal structure.
Fungal α-amylase	FAM100	4-15 ppm	4-20 ppm	 Standardization of flour in terms of diastatic activity; Increased the volume of bread and improved the crust color; Accelerated fermentation.
Maltogenic amylase	MAM100	/	20-100 ppm	Reliable anti-aging effect;Prolongs the shelf life of bread.
Protease	BHP50		150ppm used in biscuit	Reduce resting time. Improve dough extensibility.
Protease	PA-2		crackers)	Improve dough extensionity. Improve dough handling.

Enzymes for Feed

Product Name	Features	Dosage
XYLANASE FXY-100	Thermal Solid: white to yellow stable Activity: 100,000 U/C Temp resistance: 85	g complete feed.
β-MANNANASE FMA-50	Solid: white powder Activity: 50,000 U/g	5-10g of β-mannanase per ton of complete feed.
β-GLUCANASE FGLU-70	Solid: white or light yellow powde Activity: 70,000 U/g	er 8-20g of per ton of complete feed.
PHYTASE	Normal Solid: white granule Activity: 50,000 U/g	10-20g of phytase (50,000 U/g) per ton of
FPH-50; FHTT-10	High Temp Solid: white granule Activity: 10,000 U/g Temp resistance: 83	
CELLULASE FCE-10	Solid: light yellow powder Activity: 10,000 U/g	50-150g per ton of complete feed.
LIPASE FLP-100	Solid: white powder Activity: 100,000 U/g	20-60g per ton of complete feed.
α- AMYLASE FAM-5	Solid: light brown powder Activity: 5,000 U/g	10-20g per ton of complete feed.
α-GALACTOSIDASE FGA-2	Solid: white powder Activity: 2,000 U/g	12-40g per ton of complete feed.
ACID PROTEASE FAP-50	Solid: Tawny powder Activity: 50,000 U/g	20-100g per ton of complete feed.
NEUTRAL PROTEASE FNP-50	Solid: Tawny powder Activity: 50,000 U/g	60-200g per ton of complete feed.
Alkaline Protease FJP-200	Solid: Tawny powder Activity: 200,000 U/g	60-200g per ton of complete feed.

Ours Brands





























Certifications



























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ISO14001



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