

Healtang D-xylose

D-Xylose, commonly called wood sugar, is a natural 5-carbon sugar (pentose) obtained from Corn Cob. Its sweetness is 67% of sucrose.

Molecular Formula	C ₅ H ₁₀ O ₅
Molecular Weight	150.1
CAS No.	58-86-6
Appearance	White crystalline powder
Purity	≥99.5
Melting Point	147-151°C
[α] ²⁰ _D (Specific Rotation)	18.5°-19.5°

Advantages:

- Healtang D-xylose is extracted from Corn Cob via FERMENTATION way, purity above 99.5%;
- The Manufacturing process of Healtang D-xylose obeyed the GMP standard strictly, the cleaning area is 100,000 class;
- Healtang have advanced technologies to produce D-xylose, Membrane separation, chromatographic separation etc.

Packaging:

25KG/paper drum or 25KG/paper bag

Application areas:

■ Applicable to the Preparation of flavors and fragrances

[---Research result: D-xylose can be used as the raw material of Maillard Reaction. It is known that D-xylose is 5-carbo sugar, so can be used as reducing sugar.

When D-xylose heat together with the amino acid, it can produce different type of flavors. Our research is that during the process of manufacturing foodstuff, just adding less (0.05-2%) of D-xylose is fine, it will enhance the flavor a lot !]

■ Applicable to the production of Bakery Food

After adds D-xylose in the bakery food products, it can improve the golden brown color

■ Applicable to be used in pet foods

1. Add D-xylose directly.

A: Good to the pet hair, pet food with D-xylose continuity will be found the pet hair looks smoothly;

B: Benefit to the tooth, pet food with D-xylose continuity will be found the pet tooth better and have no cariosity

C: Benefit to the Intestinal canal, because D-xylose have the ability to increase the bifido-bacteria in the intestinal;

2. Add the final products which were produced from D-xylose in the pet foods.

The final products are Meat flavors (Lamb, beef, chicken etc.), Add these kinds of meat flavors in the feed can increase the appetite of the pets.

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Healtang L-arabinose

Healtang L-arabinose is a kind of Non-Calorie sweetener. L-arabinose can inhibit the activity of Sucrase /and Maltase. Therefore, it can prevent fat accumulation and protect against diabetes.

Product Name	L-arabinose	Liquid L-arabinose
Molecular Formula	C ₅ H ₁₀ O ₅	C ₅ H ₁₀ O ₅
Molecular Weight	150.13	150.13
CAS No.	5328-37-0	5328-37-0
Appearance	White crystalline powder	Brown Liquid
Purity	≥99.5%	≥30.0%
Melting point	154-158°C	--
[α]20D Spec Rotation	100°-104°	--
Refraction	--	65.0-68.0%

Authorities:

- L-arabinose is approved by FDA in US as the nutritional supplements
- L-arabinose is approved by Japan as the FOSHU product in glycemia Control and the Health Food Additive;
- L-arabinose is approved as the Novel Food by The Ministry of Health, P.R.C in May 2008!

Packaging:

25KG/paper drum or
 25KG/paper bag
 1MT or 25KG/plastic tank(for liquid product only)

Application areas:

- **Applicable to all kinds of food, milk, beverage, etc.**
 [---Research result with China CDC: After eating 5% L-arabinose(calculated based on the weight of Sucrose), the postprandial 2-hours glucose area under the curve decreased by 26.6%; the postprandial 2-hours insulin area under the curve decreased by 34.1%. Calculated as the Sucrose GI value is 65, after adding 5% L-arabinose together with the Sucrose, the final GI value is 42.8. In other words, after adding 5% L-arabinose together with the sucrose, the Sucrose GI value decreased by 34.2%.]
- **Applicable to the Preparation of flavors and fragrances**
 [---Research result with Shanghai SIT: L-arabinose and Liquid L-arabinose can be used as the raw material of Maillard Reaction, it is known that L-arabinose is 5-carbo sugar, so can be used as reducing sugar.
 When L-arabinose heat together with the amino acid, it can produce different type of flavors. Our research with SIT is the development of L-arabinose in cut tobacco, when L-arabinose heat together with L-arginine under the PH is 7, it can produce the best quality product.]
- **Applicable to the Preparation of pharmaceuticals**
 L-arabinose can be used as pharmaceutical intermediate. In Korea and US, there are two kinds of anti-cancer products, named as Clevudine and Telbivudine, in which the key intermediate is L-arabinose.

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Healtang D-xylose and L-arabinose ML (Mother Liquor)

D-xylose and L-arabinose Mother Liquor are the by-products during the production of D-xylose and L-arabinose.

Item	L-arabinose ML	D-xylose ML
Apperance	Brown or pale yellow liquid	Brown or pale yellow liquid
L-arabinose purity %	28-100	10-30
D-xylose purity %	12-42	50-75
Refraction %	>60	>60
D-Xylose content %(dry basis)	5-30	25-45
L-Arabinose content %(dry basis)	17-50	4-15
Galactose content %	0.5-3.0	4-8
Glycerin content %	0.5-4.5	≤0.5
Glucose content %	0.05-0.3	≤2.0

Application areas:

■ Applicable to the Preparation of flavors and fragrances

The main components in the D-xylose and L-arabinose MLs are D-xylose, L-arabinose and glucose etc., all of these are reducing sugars, so the D-xylose and L-arabinose ML can be used in Maillard Reaction together with the Amino acid successfully. Healtang research data shows that when add D-xylose and L-arabinose ML into the Maillard Reactions, the reaction speed will be enhanced by 40% than use glucose only, the product quality (appearance & smell & fragrance) will be much more better than using other ML.

■ Applicable to be used as buffering agent in the concrete

1. Adding D-xylose and L-arabinose ML in Concrete can prevent the concrete caking; when add 0.2% of the ML can increase the initial coagulation time more than 10 times longer;
2. Adding D-xylose and L-arabinose ML in Concrete can increase the plasticity and strength of the concrete.

Packaging:

- 25KG/plastic drum
- 1MT/plastic tank



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