



Wellgo Chemical Technology Co., LTD

Neohesperidin Dihydrochalcone (NHDC)

<b>PRODUCT NAME</b>	WELLGO NDHC
<b>PRODUCT TYPE</b>	Natural sweetener, food grade
<b>CAS No.:</b>	20702-77-6
<b>E No.:</b>	E959

**COMPOSITION AND DESCRIPTION**

<b>Component</b>	<b>Percentage</b>	<b>Color</b>	White to off-white
Content	≥99%	<b>Odor</b>	Slightly of acetic acid
Loss on drying	≤12%	<b>Appearance</b>	Powder
Sulfated ash	≤0.2%		
Impurity B (Neodiosmin)	≤2%		
Impurity D (Naringin dihydrochalcone)	≤2%		

**HEAVY METAL SPECIFICATIONS**

Arsenic	≤1	mg/kg
Lead	≤1	mg/kg
Mercury	≤1	mg/kg
Cadmium	≤1	mg/kg
Heavy Metal as Pb	≤1	mg/kg

**DESCRIPTION**

NHDC (neohesperidin dihydrochalcone; CAS NO.: 20702-77-6) is roughly 1500-1800 times sweeter than sugar, the new FDA-approved natural sweetener (As sugar substitute), it is health sweetener and flavor enhancer. Its sweet tastes like licorice. It is derived from natural ingredients of citrus (naringin or hesperidin) by bio-transformation or chemical transformation. NHDC is an efficient sweetener, sweetness and flavor enhancer with non-toxic, low calorific, flavor and bitterness masking characteristics. It also has some physiological activity, such as antioxidant, reduction of cholesterol and blood glucose. It is used in a wide range of products including foods, medicines, dietary supplements, cosmetics and feeds.

**RELATIVE SWEETNESS**

Approximately 1500~1800 times sweeter than sucrose.

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**APPLICATION AREAS:**

**Sweetness Enhancer:** NHDC has crisp taste, lasting aftertaste, high sweetness, it has a strong synergistic effect when used in conjunction with other artificial sweeteners such as aspartame, saccharin, acesulfame potassium, and cyclamate, as well as sugar alcohols such as xylitol. NHDC usage boosts the effects of these sweeteners; smaller amounts of other sweeteners are needed, and reduce the costs. Widely used in juice beverages, milk beverage, wines, bakery products, etc.

**Sweetener for Dietary supplements:** NHDC is a low calorific sweetener, and also some physiological activities, such as antioxidant activity, reduction of cholesterol and blood glucose. It is particularly applicable for functional foods, health care products, and dietary supplements as a alternative sweetener.

**Bitterness Masking for Pharmaceuticals:** Pharmaceutical companies found that NHDC can bind to bitter receptor even below its sweetness threshold, and reduce the bitterness of pharmaceutical drugs in tablet or syrup form. NHDC also can be used to animal feed. It can increases the sweetness over 40% when NHDC used in blends of sodium saccharin, but also can mask the bitter taste of saccharin to make the sweet taste is more pure, and the cost is reduced.

**Food Flavor/ Flavor Enhancer:** The flavor of NHDC is similar to maltol and ethyl maltol, and it produces significant synergistic effect with other flavor ingredient. Widely used in frozen milk products, candies, puddings, fruit juices, non-alcoholic beverages, condiments jams, chewing gums and so on.

**ADDITIONAL SAFETY INFORMATION**

A Material Safety Data Sheet is available on request.

**PACKAGING, STORAGE AND TRANSPORTATION**

Packaging	Aluminized bag vacuum packing with nitrogen inside. Net weight: 25kg/carton (5 bags × 5kg)
Shelf Life (from date of production)	2 years in unopened original packaging under the storage conditions.
Storage	Avoid sunlight, rain. Store in unbroken packaging at the cool, dry and well-ventilated place. The storage temperature should below 25°C to ensure the quality of product.
Transportation	Keep safety of the packaging in the transportation.

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