



Sun Plan Development Ltd.

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ASPARTAME

Aspartame, alias sweetener or proteoglycan, with its chemical name of N-L-a-Aspartyl-L-phenylalanine-1-methyl ester, is a dipeptide, a combination of L-aspartic acid and L-phenylalanine. It can be absorbed by human body completely and it is harmless, so quite safe to use. It tastes pure, cool and refreshing, quite like sucrose. But it's 200 times as sweet as sucrose and it has only 1/200 of its energy, so eating it constantly won't cause any change in blood sugar, and neither tooth decay nor high blood pressure nor coronary disease will result in, it is defined as sweetener of A (1) level by World Health Organization (WHO) and Food and Agriculture Organization (FAO). It is ratified for its use in more than 130 countries and regions in the world. It is widely added to and mixed in all kinds of food and non-staple food and all sorts of soft drink, the number of which has reached as many as 4, 000.

Specifications:

Commodity name: aspartame

Molecular formula: $C_{14}H_{18}N_2O_5$

Molecular weight: 294.31

Appearance: white crystal or crystalline powder

Taste: pure

Purity: 98-102%

Specific rotation (a) 20D: +14.5 - +16.5

Transmittance: 95% min.

Drying (105°C, 4hrs): 4.5% max.

Residue on ignition (sulfate): 0.2% max.

pH: 4.5-6.0

Arsenic (As): 3ppm max.

Heavy metals (Pb): 10ppm max.

Residue on ignition (sulfate): 0.2% max.

Relative material: 2.0% max.

DKP: 1.5% max.

Application: food additive, sweetener

Time: 3 years

Packing:

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