
TECHNICAL SPECIFICATIONS FOR REGISTRATION OF GEOGRAPHICAL INDICATION

1. NAME OF THE GEOGRAPHICAL INDICATION

Chinese name: 肇源大米

Transcription in Latin characters: Zhaoyuan Da Mi

Translation for information purposes: Zhaoyuan Rice

2. CATEGORY OF THE PRODUCT FOR WHICH THE NAME IS PROTECTED

Fruit, vegetable and cereals fresh or processed - Rice

3. APPLICANT

Rice Industry Association in Zhaoyuan County

4. PROTECTION IN CHINA

Registered as certification mark on February 21st, 2011 (registration number: 8639710).

5. DESCRIPTION OF PRODUCT

External Character: Zhaoyuan Rice has long and plump grains and is glossy and transparent and rich in aroma. It has low chalkiness rate. The cooked rice is pure white, tasting aromatic, mellow, pliable and creamy.

Internal Feature: tested by the Cereal Quality Supervision and Testing Center, Ministry of Agriculture, the crude protein content (dry basis) is 7.25% in Zhaoyuan Rice, amylose (dry weight of sample) is 18.69%, amylopectin is 79.97% over the total starch, gel consistency is 81.5mm, tasting quality score is 88 and alkali value level is 7. Zhaoyuan Rice contains 45 kinds of nutrients, for the higher contents are vitamin B1 greater than 0.48mg/100g, vitamin B2 greater than 0.50mg/100g, a-vitamin E greater than 0.06mg/100g, kalium greater than 73.8mg/100g, calcium greater than

6.42mg/100g, iron greater than 0.70mg/100g, zinc greater than 12.3mg/kg, selenium (calculated by se) greater than 0.022mg.

The specific characteristics of Zhaoyuan Rice as defined are due to the natural factors in the delimited geographical area.

6. CONCISE DEFINITION OF THE GEOGRAPHICAL AREA

Zhaoyuan Rice is produced within the administrative area of Zhaoyuan County, including Gulong Town, Xinzhao Town, Minyi Township, Maoxing Town, Guqia Township, Zhaoyuan Town, Erzhan Town, Sanzhan Town, Heping Township, Chaodeng Township and Bohetai Township. Its geographic coordinate is east longitude 123°57'-125°45', northern latitude 45°23'-45°59'.

7. LINK WITH THE GEOGRAPHICAL AREA

Zhaoyuan County is in world recognized 45 degree north latitude golden rice production belt, with annual effective accumulated temperature of 2900-3100°C, frost-free period of 150-165days, which is good to the nutrient accumulation during grain filling period and to reduce starch content in rice. The total number of sunshine in rice growing season reaches 13-16 hours per day, which is good to form more organic matter and sweeter taste. After rice earring, the highest temperature shall be no more than 30°C to avoid high temperature effect. The coldness in winter reduced the degrees of pests and diseases greatly, shortened the usage of pesticides. After freezing the plant fiber in soil, it would accelerate the conversion to fertilizers which is required by rice in the next year.

Within Zhaoyuan County, the soil mainly consists of chernozem and meadow soil. The deep soil layer is with strong water-holding capacity. The organic content is about 3%. With pH value about 7, the soil is good in terms of the tilth. In this area, there are mainly low lands and plains, as well as bogs, lakes and rivers. And its territory can be generally divided into “water, grass and field”. There is fertile soil, abundant water resources and an excellent agroecological environment. It is known as the “north border version of the south of the lower reaches of the Yangtze River”. The

part of Songhuajiang River and Nenjiang River that flows through Zhaoyuan County is 242.86 kilometers long. The water in these two rivers is brought in for irrigation. Within the whole county, there are 9 large-scale irrigated areas, 28 small and medium pump stations and 32 end paddy fields and pools. The total water-holding capacity is 16 million cubic meters. It is worth mentioning that there are no large-scale enterprises with exhaust emission within the county. Consequently, the air there is clean, with very low content of suspended particulates, sulfur dioxide and oxynitride in the atmosphere. It is a rare pure land without environmental pollution. Zhaoyuan County belongs to the area of temperate continental climate. It enjoys four distinctive seasons, excellent light condition, cold and dry winter, large temperature difference, and little plant diseases and insect pests. In addition, the average annual precipitation there is about 600 mm. Located in the upper limit of the first accumulated temperature part, Zhaoyuan County is with annual effective accumulative temperature of 2900°C-3100°C. The frost-free season could reach 165 days, and the sunlight time in the growing season could reach 1295.6 hours. There is fertile soil texture, mild temperature, plentiful and proper water in Songhuajiang River and Nenjiang River, and unique conditions of light and warmth. All these provide good environment for healthy growth of rice, thus to create high-quality Zhaoyuan Rice. Zhaoyuan County has a long history and rich cultural deposits. As early as the Neolithic Age, Sushen Nationality and Fuyu Nationality began to live and breed there, leaving more than 100 places of remains, such as famous “Baijinbao culture”, “Wanghaitun”, etc. During the Qing dynasty, the rice was planted in this county. In 1983, rice cropping there began to take shape. In recent years, owing to scientifically advanced cultivation and management technology, the current rice yield per unit area is above 600 kilograms throughout the year, with the cultivated area reaching 34700 hectares. Zhaoyuan County is known as the national advanced county of food production, national standardized rice production base for raw material of green food and provincial production base of green food. Zhaoyuan Rice enjoys good fame inside and outside the province, always maintaining the position of “famous rice product” in the consumer's mind.

8. SPECIFIC RULES CONCERNING LABELLING AND USING (IF ANY)

None

**9. CONTROL BODY / CONTROL AUTHORITY RESPONSIBLE FOR CHECKING THE
RESPECT OF THE PRODUCT SPECIFICATIONS**

Zhaoyuan County Quality Technical Supervision and Inspection Center