

Specification of Chlorella Extract OD-1200

Chlorella Extract OD-1200 is extracted from chlorella powder with water, processed, and dried. Its concentration is adjusted with OD value at 260 nm by adding dextrin. Its OD value at 260 nm is not less than 1200.

Description Pale-yellow to yellowish brown powder with characteristic odor.

Purity test

- (1) Heavy metals — Not more than 20 ppm (1.0 g, Method 2, Standard solution 2.0 mL).
- (2) Arsenic — Not more than 2 ppm (1.0 g, Method 3, Equipment B).

Loss on drying Not more than 8.0 % (1 g, 105 °C, 3 hours).

OD value at 260 nm

Weigh accurately about 300 mg of Chlorella Extract OD-1200 and dissolve in water to make exactly 100 mL. Pipet 10 mL of this solution, and add water to make exactly 100 mL. Determine the absorbance A at the wavelength of maximum absorption at about 260 nm of this solution, using water as the blank.

$$\text{OD value at 260nm} = \frac{A \times 1000}{\text{Weight of sample (mg)}} \times 1000$$

Microbiological tests

- (1) Total aerobic microbial count — Not more than 3,000 cfu/g.
- (2) Coliforms — Negative.

Test method is according to *Japan's Specifications and Standards for Food Additives*.