



GB 31617-2014

# National Food Safety Standard Nutritional Fortification Substances Casein Phosphopeptide

食品安全国家标准 食品营养强化剂 酪蛋白磷

National Health and Family Planning Commission  
of the People's Republic of China

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## National Standard of the People's Republic of China

GB 31617-2014

### National Food Safety Standard

### Food Nutritional Fortification Substance Casein Phosphopeptides

食品安全国家标准

食品营养强化剂 酪蛋白磷酸肽

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## National Food Safety Standard

### Food Nutritional Fortification Substance Casein Phosphopeptides

#### 1. Scope

This standard applies to the food nutritional fortification substance casein phosphopeptides that is produced using cow milk or casein products as raw materials by enzyme hydrolysis method.

#### 2. Molecular Structure and Relative Molecular Mass

Its main active component is polypeptide containing 1~6 phosphoserine residues, and its relative molecular mass is 1000 u~5000 u.

#### 3. Technical Requirements

##### 3.1 Sensory requirements

It shall comply with the provisions of Table 1.

**Table 1 Sensory requirements**

| Items | Requirements          | Test methods                                                                                                                                          |
|-------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Color | White to light yellow | Take an appropriate amount of test sample and place it in a clean and dry white porcelain plate, and observe its color and state under natural light. |
| State | Powdery               |                                                                                                                                                       |

##### 3.2 Physicochemical indicators

It shall comply with the provisions of Table 2.

**Table 2 Physicochemical indicators**

| Items                                                 | Indicators            | Test methods       |
|-------------------------------------------------------|-----------------------|--------------------|
| Content of casein phosphopeptides (on dry basis, w)/% | Comply with the claim | A.3 in Annex A     |
| Total nitrogen (on dry basis, w)/% $\geq$             | 10                    | Kjeldahl method in |



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