



**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC  
OF CHINA**

**中华人民共和国国家标准**

GB 5413.33-2010

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**National food safety standard  
Determination of specific gravity in raw milk**

**食品安全国家标准  
生乳相对密度的测定**

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# National food safety standard

## Determination of specific gravity in raw milk

### 1. Scope

This standard specifies determination of specific gravity in raw milk.

This standard applies to determination of specific gravity in raw milk.

### 2. Principle

Use a density meter to test the specimen. Attain the result of the specific gravity through table look-up according to the readings.

### 3. Instruments and equipment

**3.1** Density meter: 20°C/4°C.

**3.2** Glass cylinder or (200 – 250) mL measuring cylinder: The cylinder shall have a height more than the length of the density meter and shall have a diameter that remains spacing not less than 5 mm between its perimeter and the inner wall of the cylinder when the density meter is sunk.

### 4. Steps of analysis

Take the evenly mixed test solution with a conditioning temperature of 10°C to 25°C. Carefully pour it into the glass cylinder. Don't make it generate bubble and directly measure the specimen temperature. Be cautious to place the density meter into the test solution at equivalent graduation of 30°. Then, let it naturally float but not to touch the inner wall of the cylinder. Allow it to stand for 2 min to 3 min. Keep your eyes look at horizontally the raw milk level and take its reading. Convert it into that at 20°C through look-up of Table 1 according to the temperature of the specimen and the reading from the density meter.



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