



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

**中华人民共和国国家标准**

**GB/T 25554-2010**

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**National food safety standard**

**Food additives Polyoxyethylene(20) sorbitan  
monooleate (Tween-80)**

**食品安全国家标准**

**食品添加剂 聚氧乙烯（20）山梨醇酐单油  
酸酯（吐温 80）**

**Issued on December 21, 2010**

**Implemented on February 21, 2011**

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**Issued by the Ministry of Health of the People's Republic of China**

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## Foreword

Annex A of this standard is a normative annex.

## National food safety standard

### Food additives Polyoxyethylene(20) sorbitan monooleate (Tween-80)

#### 1 Scope

This standard applies to food additive, polyoxyethylene(20) sorbitan monooleate(Tween 80), obtained by addition reaction with sorbitan monooleate and epoxyethane as materials.

#### 2 Normative references

The following quoted documents for the application of this document is essential. For dated reference documents, only the dated edition applies to this document. For undated reference documents, the latest edition (including all amendments) applies to this document.

#### 3 Technical requirements

3.1 Sensory requirements: shall conform to stipulations in Table 1.

**Table 1 Sensory requirements**

Item	Requirements	Testing method
Color	Faint yellow in room temperature	Take enough laboratory samples into clean and dry glass tube and visually observe under natural light.
State	Oily matter in room temperature	

3.2 Physicochemical indexes: shall conform to stipulations in Table 2.

**Table 2 Physicochemical indexes**

Item	Index	Testing method
Acid value (by KOH) (mg/g)	≤ 2.0	A.4 in Annex A
Saponification value (by KOH) (mg/g)	45~55	A.5 in Annex A
Hydroxyl value (by KOH) (mg/g)	65~80	A.6 in Annex A
Water w/%	≤ 3.0	A.7 in Annex A
Ignition residue w/%	≤ 0.25	A.8 in Annex A
Arsenic (As) (mg/kg)	≤ 3	A.9 in Annex A
Lead (Pb) (mg/kg)	≤ 2	A.10 in Annex A
Oxyethylene group (by C <sub>2</sub> H <sub>4</sub> O), w/%	65.0~69.5	GB/T 7385

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