

## **GENIGEL®M45**

### 1. SCOPE

Company SMS Corporation Co., Ltd.

Description GENIGEL® M45 is modified waxy tapioca starch manufactured in

compliance with US FDA 21CFR 172.892 (Food starch-modified)

Appearance Yellowish-white powder

EU Classification E1442

### 2. PHYSICAL AND CHEMICAL SPECIFICATION

Moisture (%w/w)10.0 MaxpH4.5-7.0Sieve analysis (%w/w)30.0 MaxViscosity (mPa.s)400-2,400Sulfur dioxide (ppm)Less than 10

#### 3. MICROBIOLOGICAL SPECIFICATION

Total plate count (CFU/g)5,000 MaxYeast and mold (CFU/g)100 MaxE.coli (MPN/g)Less than 3Salmonella spp. (/25g)Absent

### 4. STORAGE AND SHELF LIFE

Storage condition Clean and dry condition at ambient temperature, away from

odorous materials

Shelf life 24 months

#### 5. TEST METHOD

Moisture (%w/w) Based on ISO 1666:1996 (E) pH 5.0% dry substance (solution)

Sieve analysis (%w/w) Mechanical sieving on 150 micron

Viscosity (mPa.s) Brookfield viscometer (Model-LV) 5.0% dry substance at 30°C,

60rpm

Sulfur dioxide (ppm)

Total plate count (CFU/g)

Yeast and mold (CFU/g)

Based on ISO 5379:2013 (E)

Based on ISO 4833:1991 (E)

Based on ISO 7954:1987 (E)

E.coli (MPN/g) Based on FDA BAM Online, 2013 (Chapter 4)

Salmonella spp. (/25g) Based on ISO 6579:2002 (E)



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### 6. NUTRITIONAL INFORMATION

	(Value per 100 grams)		
<b>Nutritional data</b>	Value	Unit	Method
Energy	385	kcal	Regulation (EU) 1169/2011
Total fat	0.07	g	Modified AOAC (2012), 996.06
Saturated Fat	0	g	Modified AOAC (2012), 996.06
Cholesterol	0	mg	In-house method
Protein	0	g	Modified AOAC (2012), 981.10
Total Carbohydrates	min 95	g	Calculation
Dietary Fiber	< 0.8	g	Modified AOAC (2012), 985.29
Sugar	0	g	In-house method
Sodium	3	mg	Modified AOAC (2012), 984.27
Vitamin A	0	ug RE	In-house method
Vitamin B1	0	mg	In-house method
Vitamin B2	0	mg	In-house method
Calcium	36	mg	Modified AOAC (2012), 984.27
Iron	0	mg	Modified AOAC (2012), 984.27
Ash	< 0.3	g	AOAC (2012), 923.03
Moisture	< 5	g	AOAC (2012), 985.29