# Skim milk powder

Skim milk powder is used as nutritive substrate in media for the growth of fastidious lactobacilli and in bacteriological media for dairy products

#### **Mode of Action**

Skim milk powder is a spray dried skimmed cow milk that is free of inhibitors (e.g. antibiotics).

It is used as substrate in media for the bacteriological examination of dairy products and for the identification of Clostridia spp. The latter can be differentiated based on their ability to proteolytically break downs proteins to peptones (peptonisation) or to coagulate milk.

As an ingredient in culture media Skim milk powder is usually employed in concentrations of 0.1 to 1.0%.

### **Typical Analysis**

Colour powder	Cream	
Bioburden	<10000 cfu/g	
Solubility (5%)	Total	
pH (2% in water)	6.0-7.0	
Water (Karl Fischer)	≤10%	
Sulfated ash (800 °C)	≤10%	
Assay protein (ex. N calc. on dried substance)	≥35%	
Fat	≤1.5%	
Free acids (as lactic acid)	≤2%	
Lactose	50-55%	
Amino acid specification	See table page 542	

## **Ordering Information**

	Product	Merck Cat. No.	Pack size
	Skim milk powder	1.15363.0500	500 g

### **Quality control**

Growth
+
+
+
+
+
+
+