



MAHARASHTRA RAJYA SAHAKRI DUDH MAHASANGH MARYADIT,
MAHANAND DAIRY, VARVAND,

Gat no. 2104/1B, Near Pune -Solapur Highway, Tal.-Daund. Dist.-Pune 412215.

Tel.No. 02119-283360/61 E Mail ID varvand@mahanand.in

SPECIFICATION OF SKIMMED MILK POWDER

Sr. NO.	DESCRIPTION	CHEMICAL SPECIFICATION	REFERENCE METHOD
1.	Description	Agglomerated. White to light cream colour. Free from lumps.	IS 13334:2014 (Part I)
2	Flavour & taste	Pleasant & clean. It may have slightly cooked but not burnt flavour	
3	Extraneous matter	Free from extraneous matter, added colour & added flavour	
4	Titration acidity (ml of 0.1 N NaOH/10 g of SNF)	12-18	IS 11766-1986
5	Milk fat % by mass	1.5 (max)	Is 11721:2013 or IS 13334 (Part I):2014 annex B
6	Moisture% by mass	3.5 (max)	IS 16072:2012
7	Insolubility index in ml	0.5 (max)	IS 12759:1989
8	Total ash (on dry basis in % by mass)	8.2 (max)	IS 14433 (Part I): 1997
9	Total solids % by mass	96.0 (min)	As per SOP
10	Milk protein in milk solid not fat (% by mass)	Not less than 34.0	IS 7219:1973
11	pH	6.5-6.8	As per SOP
12	MBRT Test (hrs)	5.0 min	ICAR Bacteriological manual, Karnal
13	68% alcohol	Negative	Instruction manual, NDDDB Anand
14	Adulterant test	Negative	
15	Sodium (ppm)	550 (max)	
16	Scorched particles (mg)	7.5 (equivalent to A Grade) to 15 (equivalent to B Grade)	IS 13500
17	Bulk density(g/cm ³)	0.48 to 0.58	As per SOP



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SPECIFICATION OF SKIMMED MILK POWDER

Sr. NO.	DESCRIPTION	BACTERIOLOGICAL SPECIFICATION	REFERENCE METHOD
18	Total Plate Count (cfu/gm)	1000-5000	IS 5402
19	Coliform count (cfu/gm)	Absent	IS 5401
20	E. coli (cfu/gm)	Absent	IS 5887 (Part 1)
21	Salmonella (cfu/ 25 gm)	Absent	IS 5887(Part 3)
22	Coagulase positive Staph. aureus (cfu/gm)	Absent	IS 5887 (Part 2)
23	Listeria monocytogen (cfu/25 gm)	Absent	IS 14988 (Part 1)
24	Anaerobic spore count (Clostridium sp.) (cfu/25 gm)	<10	IS 5887 (Part 4)
25	Aerobic spore count (Bacillus cereus) (cfu/25 gm)	<100	IS 5887 (Part 6)

Storage condition & shelf life – Shelf life of product is 12 months when stored at Room Temperature..

The product shall also confirm to any other requirements under the BIS & FSSAI Regulations 2011 as & when recommended.

Packaging – Bulk Pack- SMP Kraft Paper Bag with LDPE Polyliner (25 Kg).


A. T. Markad (Project In-charge)