

**PAKISTAN STANDARD SPECIFICATION
FOR
POWDER TEA/COFFEE WHITENER**



**PAKISTAN STANDARDS AND QUALITY CONTROL AUTHORITY,
STANDARDS DEVELOPMENT CENTRE,
Plot No. ST.7/A, Block-3, Scheme-36, Gulistan-e-Jouhar,
Karachi-Pakistan**

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PAKISTAN STANDARDS & QUALITY CONTROL AUTHORITY
(*STANDARDS DEVELOPMENT CENTRE*)

(AGRICULTURE & FOOD DIVISION)

MEMBERSHIP LIST OF MILK & DAIRY PRODUCTS TECHNICAL COMMITTEE

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MEMBERS:

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| 2 | Govt. Public Analyst, | Food Laboratory,
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| 3 | Govt. Public Analyst, | Directorate General Health Services,
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| 4 | Govt. Public Analyst, | Food Laboratory,
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| 5 | Surgeon General, | AGS Br. (Med Dte).,
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- 10 Mr. Iftikhar Ahmad,
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- 12 Director, Livestock Products Research Institute,
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- 13 Mr. Fairus Hidzir
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- 15 Chairman Department of Food Science &
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- 16 Dr. Muhammed Nasir,
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- 17 Dr. Omer Mukhtar Tarar,
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- 18 Managing Director, Kabirwala Dairy Ltd, 40-A/B,
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- 19 Mr. Naeem Shahid,
Chief Executive, Halaal Foundation,
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- 20 Secretary, Dairy Farmers Association,
4/90, Cattle Colony, Landhi,
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| 21 | Director General (Research), | Livestock & Dairy Development,
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| 22 | Chemical Promotion Officer, | Merck Marker (Pvt.) Ltd ,
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| 23 | Chairman, | Pakistan Dairy Association (Pvt.) Ltd.,
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| 24 | Quality Assurance Manager, | Millac Foods (Pvt.) Ltd.,
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| 25 | Mr. Ammar Akram Qureshi,
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| 27 | Director, | Quality Control Centre,
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| 28 | Director, | Standards Development Centre,
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SECRETARIATE:

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| 1. | Mr. Naseem-us-Sami,
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<u>Karachi.</u> |
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PAKISTAN STANDARD SPECIFICATION
FOR
POWDER TEA/COFFEE WHITENER

0. FOREWORD

- 0.1** This Pakistan Standard was adopted by the Pakistan Standards & Quality Control Authority Standards Development Centre on **09-03-2017** after the draft finalized by the Milk & Dairy Products Technical Committee, had been approved by the National Standards Committee for Agriculture & Food Products.
- 0.2** This standard has drawn up to ensure uniformity in the processing of Powder Tea/Coffee Whitener.
- 0.3** In the preparation of this standard the views of the Manufacturers, Scientist, Suppliers, Consumers, Food Technologist, Testing Authorities and Shariah Scholars have been taken into consideration.
- 0.4** For the purpose of deciding whether a particular requirement of this standard is complied with final value observed or calculated expressing the result of test or analysis shall be rounded off in accordance with PS:103 for Methods of Rounding Off Numerical Value the number of significant places retained in the rounded off value, shall be the same as that of the specific value in the standard.
- 0.5** All the ingredients and processes shall be in accordance with PS:3733 for Halaal Food Management System Requirements for any organization in the Food Chain.

1. SCOPE

- 1.1** This Standard prescribes the requirements, methods of sampling and test for Powder Tea/Coffee Whitener.

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2. TERMINOLOGY

For the purpose of this standard, the following definition shall apply.

- 2.1 Milk or Cream substitute consisting of Milk Solids Non Fat (MSNF), Milk Fat and/or Vegetable Fat, Sugar and Lactose for use in Tea/Coffee the product must meet the requirements mention in Table-I.
- 2.2 The product may be prepared by spray drying or any other suitable processing/drying technique to conform to compositional and quality requirements, microbiological criteria and heavy metal criteria given in Table I, Table II and Table III.

3. DESCRIPTION

The product shall be uniform in composition and free from lumps except those that break up readily under slight pressure and shall be reasonably free from scorched particles.

4. REQUIREMENTS

- 4.1 The product shall conform to composition requirements given in Table-I
- 4.2 The product shall be free from extraneous matter and added colour(s).
- 4.3 The product may contain permitted food additive(s), carbohydrates such as sucrose, glucose syrup, dextrose or maltodextrin and flavor(s)-

5. HYGIENE

It is recommended that the products covered by the provisions of this standard be prepared and handled in accordance with the appropriate sections of the PS:3944 Code of Practice *General Principles of Food Hygiene* the *Code of Hygienic Practice for Milk and Milk Products (CAC/RCP 57-2004)* and other relevant Codex texts such as Codes of Hygienic Practice and Codes of Practice. The products should comply with any microbiological criteria established in accordance with the *Principles and Guidelines for the Establishment and Application of Microbiological Criteria Related to Foods (CAC/GL 21-1997)*.

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6. **COMPOSITION AND QUALITY REQUIREMENTS**

The product shall conform to the requirements given in Table-I.

TABLE-I
COMPOSITION AND QUALITY REQUIREMENTS OF
POWDER TEA/COFFEE WHITENER

S. #	CHARACTERISTICS	REQUIREMENTS
i.	Moisture, percent by mass, max.	4.0
ii.	Milk Solids non Fat (MSNF), percent by mass, min.	30
iii.	Insolubility Index ml. max.	1.5
iv.	Total Ash (on dry basis), percent by mass, max.	7.0
v.	Fat (Milk and/or Vegetable and/or blend thereof,) percent by mass, min.	15.0

7. **MICROBIOLOGICAL REQUIREMENTS**

The product shall conform to the microbiological criteria given in Table-II.

TABLE-II
MICROBIOLOGICAL CRITERIA FOR POWDERED TEA/COFFEE WHITENER

S. #	CHARACTERISTICS	REQUIREMENTS
i.	Standard Plate Count/TPC	≤ 30,000 cfu/g
ii.	Salmonella	Absent/25g
iii.	Enterobacteriaceae	< 10 cfu/g
iv.	Staphylococcus	< 100 cfu/g
v.	Yeast & Mold	≤ 100 cfu/g

TABLE-III
HEAVY METALS CRITERIA FOR POWDERE TEA/COFFEE WHITENER

S. #	Heavy Metals	Max limit
1.	Lead	2.0 ppm
2.	Arsenic	0.1 ppm
3.	Cadmium	1.0 ppm

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7. PACKING

8.1 The product shall be packed in suitable food grade packaging material.

8. LABELLING

The labeling shall comply with the requirements given in PS:1485 for Labeling of Prepackaged Foods.

9. MARKING

1. Name and Type of the Product.
2. Name and Address of the Manufacturer.
3. Batch or Code Number.
4. Date of Manufacture and Expiry.
5. List of Ingredients.
6. It shall be written in *URDU* language “*YEH DOODH NAHIN HAI*” OR “*YEH DOODH KA NAIMULBADAL NAHI HAI*” on both sides. This writing shall be legible in contrast with the background.(It will appear below the brand name with the same font size as the brand name).
1. Storage Instructions, if required
2. Net Weight (average volume principle will be applicable).
3. This Pakistan Standard, PS Mark and License Number.

10. METHOD OF SAMPLING AND ANALYSIS

The product shall be sampled and analyzed in accordance with relevant methodology given in Codex Standard 234-1999 Recommended Methods of Analysis and Sampling or any other recognized method of PS, ISO or other internationally recognized may be used for sampling & analyses purpose.

11. METHOD OF TEST

The relevant Testing Method of PS, ISO, CAC and of other internationally recognized standard methods may be taken into account for analysis purpose
