	UN RATIONS STANDARD	DATE: 01/04/2024
	DRINKING WATER	ED No: 03
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1. PRODUCT NAME

DRINKING WATER

2. DESCRIPTION



The drinking water shall meet the latest edition of the *Guidelines for Drinking Water Quality of the World Health Organization*.

PRODUCT RISK		
LOW	MEDIUM	HIGH

3. INGREDIENTS

3.1. ESSENTIAL INGREDIENTS

Water

3.2. OTHER PERMITTED INGREDIENTS

Not Permitted

4. PROCESSING

Processing

4.1. CODEX "CAC/RCP 1-1969, Rev. 2011; Code of Practice - General Principles of Food Hygiene including annex on HACCP systems and guidelines for application.

4.2. Code of Hygienic Practice for Bottled/Packaged Drinking Waters (Other than Natural Mineral Waters)

5. MICROBIOLOGICAL CRITERIA

FOOD SAFETY PARAMETERS

MAXIMUM LIMITS

Escherichia coli (E.coli)

n = 5, c = 0, m = 0 cfu / 250 ml

Enterococci

n = 5, c = 0, m = 0 cfu / 250 ml

Pseudomonas aeruginosa

n = 5, c = 0, m = 0 cfu / 250 ml

Clostridium perfringens

0 cfu / 100 ml

Colony count 22°C¹

< 1x10² cfu/ ml

Colony count 37°C¹

< 2x10 cfu / ml

The product should comply with any microbiological criteria established in accordance with the Principles for the Establishment and Application of the Microbiological Criteria for Foods (CAC/GL 21- 1997).

6. CHEMICAL CRITERIA

SAFETY PARAMETERS

LIMITS

pH

6.5 - 8.5

QUALITY PARAMETERS

MAXIMUM LIMITS

Chloride

250 mg/l

Fluoride

1.5 mg/l

Sodium

200 mg/l

Sulphate

250 mg/l

Aluminium

0.2 mg /l


Barium

0.05 mg/l

Beryllium

0.2 ug /l

¹ If a test is conducted within 72 hours after bottling.

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Calcium	200 mg /l
Iron Total	0.3 mg /l
Magnesium	150 mg /l
Manganese	0.1 mg /l
Selenium	0.01 mg /l
Sodium	200 mg /l
Zinc	5 mg /l

7. PHYSICAL CRITERIA

PARAMETER	LIMITS
Storage Temperature	15°C to 25 °C
Texture	Water
Odour and flavour	Acceptable to consumers and no abnormal change
Colour	None
Foreign matter	Free from foreign or extraneous matter, shall be clean and wholesome

8. CONTAMINANTS

PARAMETER	MAXIMUM LIMITS
Acrylamide	0.10 µg/l
Antimony	10 µg/l
Arsenic	10 µg/l
Benzene	1.0 µg/l
Benzo(a)pyrene	0.010 µg/l
Bisphenol A	2.5 µg/l
Boron	1.5 mg/l
Bromate	10 µg/l
Cadmium	5.0 µg/l
Chlorate	0.25 mg/l
Chromium	25 µg/l
Copper	2.0 mg/l
Cyanide	50 µg/l
1,2-dichloroethane	3.0 µg/l
Epichlorohydrin	0.10 µg/l
Fluoride	1.5 mg/l
Haloacetic acids (HAAs)	60 µg/l
Lead	5 µg/l
Mercury	1.0 µg/l
Microcystin-LR	1.0 µg/l
Nickel	20 µg/l
Nitrate	50 mg/l
Nitrite	0.50 mg/l
Pesticides	0.10 µg/l
Pesticides total	0.50 µg/l
Polycyclic aromatic hydrocarbons	0.10 µg/l
Tetrachloroethene and Trichloroethene	10 µg/l

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9. NUTRITIONAL FACTS (Approximate values per 100 g)

NUTRITION FACT	AMOUNT PER 100 g OF PRODUCT
Energy	0 kcal

10. PACKAGING

PARAMETER	LIMITS
Primary packaging	Food-grade, recyclable/or biodegradable material
Secondary packaging	Materials appropriate for handling
Primary packaging net weight	Up to 2 L
Warranty at delivery location	Minimum 9 months

11. LABELLING

- UNSTD-GEN-02 "UN Product Labelling"

12. OTHER REQUIREMENTS

- UNSTD-GEN-03: "UN Inspection"
- UNSTD-GEN-04: "UN Certification"
- Codex Stand 227-2001- General standard for bottled/packageged drinking water