PRODUCT SPECIFICATION

biolla Tri-Potassium Citrate Monohydrate

BP/USP/FCC/E332(ii)

Product description

Molecular Formula:	$K_3C_6H_5O_7 \cdot H_2O$
Chemical Name:	Mono-hydrous tripotassium, 2-hydroxy propane-1,2,3-tricarboxylate potassium citrate
EINECS (EC) Number:	212-755-5
CAS No:	6100-05-6
Appearance:	White or slightly yellow crystal or powder
Colour:	White
Odour:	Odorless
Taste:	Cool and salty
Physical Properties:	Easily soluble in water or glycerin, almost insoluble in ethanol; relative density 1.98; melts and decomposes at 230°C.

Usage:

Food Industry: Used as a buffer, chelating agent, stabilizer, antioxidant, emulsifier, and flavoring agent in dairy products, jellies, jams, meat products, canned goods, and pastries. Also serves as an emulsifier for cheese and a preservative for citrus fruits.

Pharmaceutical Industry: Applied for the treatment of hypokalemia, potassium deficiency, and alkalization of urine.

Physical and chemical specifications

Parameter	GB14889-94	BP2009	USP32	FCC-V
Appearance	White or light yellow crystal or powder	White or light yellow crystal or powder	White or light yellow crystal or powder	White or light yellow crystal or powder
Content ($K_3C_6H_5O_7$) (%)	≥ 99.0	99.0-101.0	99.0-100.5	99.0-100.5
Heavy Metals (As Pb) (%)	≤ 0.001	≤ 0.001	≤ 0.001	-
Arsenic (As) (%)	≤ 0.0003	≤ 0.0001	≤ 0.0001	-
Loss on Drying (%)	3.0-6.0	-	3.0-6.0	3.0-6.0
Moisture (%)	-	4.0-7.0	-	-
Chloride (Cl) (%)	-	≤ 0.005	-	-
Sulphate (%)	-	≤ 0.015	-	-
Oxalates (%)	-	≤ 0.03	-	-
Sodium (%)	-	≤ 0.3	-	-
Alkalinity	Pass test	Pass test	Pass test	Pass test
Readily Carbonisable Substances	-	Pass test	-	-
Transparency and Color of Sample	-	Pass test	-	-

4. Packaging:

- 25 kg composite plastic woven or paper bag with PE liner
- 500 kg big bag

5. Storage and Transport:

Store in a dry, well-ventilated warehouse, away from moisture, heat, and poisonous substances. Handle with care to avoid damage to packaging.