



# G. AMPHRAY LABORATORIES

Potassium Citrate BP/EP/USP/IP		Product Data Sheet																																			
CAS No. 6100-05-6																																					
C <sub>6</sub> H <sub>5</sub> K <sub>3</sub> O <sub>7</sub> .H <sub>2</sub> O		Molecular Weight : 324.4																																			
INFORMATION OF THE PRODUCT																																					
Sr.No.	Information																																				
1	Name of the Product	:	Potassium Citrate BP/EP/USP/IP																																		
2	Structure	:																																			
3	Composition	:	It is composition of Potassium salt and citric acid.																																		
4	Chemical Name (IUPAC)	:	Tripotassium 2-hydroxypropane-1, 2, 3-tricarboxylate monohydrate.																																		
5	Properties	:	Alkalisiation of urine																																		
6	Specification		<table border="0"> <tr> <td>Appearance (As per Ph. Eur./ USP/IP)</td> <td>White or almost white granular powder or transparent crystals hygroscopic.</td> </tr> <tr> <td>Solubility (As per Ph. Eur./USP/IP)</td> <td>Very soluble in water.</td> </tr> <tr> <td>Identification</td> <td></td> </tr> <tr> <td>A) Test</td> <td>Gives reactions of Citrates.</td> </tr> <tr> <td>B) Test</td> <td>Gives reactions of Potassium.</td> </tr> <tr> <td>Appearance of solution (As per Ph. Eur. / IP)</td> <td>The solution is clear and colourless</td> </tr> <tr> <td>Acidity or Alkalinity (As per Ph. Eur. / IP)</td> <td>Not more than 0.2 ml of 0.1 M HCL / 0.1 M NaOH</td> </tr> <tr> <td>Alkalinity (As per USP /IP)</td> <td>No pink colour is produce</td> </tr> <tr> <td>Readily Carbonisable Substances.</td> <td>Not more intensely coloured than reference solution Y2 or GY2.</td> </tr> <tr> <td>Chlorides (As per Ph.Eur.)</td> <td>Maximum 50 ppm.</td> </tr> <tr> <td>Chlorides (As per IP)</td> <td>Maximum 100 ppm.</td> </tr> <tr> <td>Oxalates (As per Ph.Eur./IP)</td> <td>Maximum 300 ppm.</td> </tr> <tr> <td>Sulfates (As per Ph.Eur./IP)</td> <td>Maximum 150 ppm.</td> </tr> <tr> <td>Heavy Metals (As per Ph.Eur./ IP /USP)</td> <td>Maximum 10 ppm</td> </tr> <tr> <td>Sodium (As per Ph.Eur./IP)</td> <td>Maximum 0.3 %</td> </tr> <tr> <td>Water (As per Ph.Eur./IP)</td> <td>Between 4.0% to 7.0%</td> </tr> <tr> <td>Loss on Drying (As per USP)</td> <td>NLT 3.0 % to NMT 6.0 %</td> </tr> </table>	Appearance (As per Ph. Eur./ USP/IP)	White or almost white granular powder or transparent crystals hygroscopic.	Solubility (As per Ph. Eur./USP/IP)	Very soluble in water.	Identification		A) Test	Gives reactions of Citrates.	B) Test	Gives reactions of Potassium.	Appearance of solution (As per Ph. Eur. / IP)	The solution is clear and colourless	Acidity or Alkalinity (As per Ph. Eur. / IP)	Not more than 0.2 ml of 0.1 M HCL / 0.1 M NaOH	Alkalinity (As per USP /IP)	No pink colour is produce	Readily Carbonisable Substances.	Not more intensely coloured than reference solution Y2 or GY2.	Chlorides (As per Ph.Eur.)	Maximum 50 ppm.	Chlorides (As per IP)	Maximum 100 ppm.	Oxalates (As per Ph.Eur./IP)	Maximum 300 ppm.	Sulfates (As per Ph.Eur./IP)	Maximum 150 ppm.	Heavy Metals (As per Ph.Eur./ IP /USP)	Maximum 10 ppm	Sodium (As per Ph.Eur./IP)	Maximum 0.3 %	Water (As per Ph.Eur./IP)	Between 4.0% to 7.0%	Loss on Drying (As per USP)	NLT 3.0 % to NMT 6.0 %
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			Tartrate (As per USP)	No crystalline precipitate is formed.
Sr.No.	Information			
			Assay	
			A) Assay by titration (As per Ph.Eur./ IP)	99.0 % to 101.0% calculated on anhydrous basis
			B) Assay by titration (As per USP)	99.0 % to 100.5% calculated on dried basis
			Additional tests (In-house)	
			Particle size	~ 100 % passing through 16 mesh
			Bulk density	~ 1.1 g/ml (Approx.)
7	Uses	:	It is used for treatment of urine infection, used to manage gout and arrhythmia if patient is hypokalemic, used for urinary calculi, used as an alkalizing agent, it is used in soft drink as a buffering agent. Ref .Wikipedia	
8	Packing	:	25 kg net HDPE or Kraft Paper Bags with inner liner.	
9	Shelf life	:	Expiry Date: Five years from Date of manufacturing.	
10	Storage	:	Store in closed container in cool, dry place & protect from light, heat dust & other contaminants.	

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