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Plot no. 1116/P, Lamadapura Road,  
Manjusar – 391 775,  
Ta- Savli, Dist. Vadodara, Gujarat, India

## Quality Control

### Standard Test Specifications

Title: Potassium Chloride ACS

Page No.: 1 of 3

|                                      |                     |                              |                           |
|--------------------------------------|---------------------|------------------------------|---------------------------|
| Specification No.:<br>ACPL/FP/SP/035 | Revision No.:<br>00 | Effective Date<br>14/08/2021 | Review Date<br>13/08/2024 |
| Change Control No.                   | NA                  |                              |                           |

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Date: 11/08/2021

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Date: 12/08/2021

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Date: 13/08/2021

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Format No. QC/017/F/01-00

Certified By (Sign/Date) : Solanki 14/08/2021

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Page No.: 2 of 3

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#### 1.0 SAMPLING LEVEL:

As mentioned in the “Sampling procedure” SOP.

#### 2.0 SAMPLING METHOD TO BE FOLLOWED:

100% sampling to be done from each container.

#### 3.0 TOTAL COMPOSITE SAMPLE TO BE COLLECTED :

100 gm

#### 4.0 RETEST DATE: Three years

#### 5.0 CAS No: 7447-40-7

#### 6.0 MOLECULAR FORMULA: KCl

#### 7.0 MOLECULAR WEIGHT: 74.55 gm/mol.

#### 8.0 CATEGORY: Used in prevention and treatment of potassium deficiency and electrolyte imbalance.

#### 9.0 STORAGE: In airtight container.

#### 10.0 SAFETY PRECAUTIONS TO BE TAKEN WHILE SAMPLING AND HANDLING :

Use hand gloves, goggles and apron during Handling.

#### 11.0 CONTROL SAMPLE: 3 X 100gm.

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Page No.: 3 of 3

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## TEST PARAMETERS AND SPECIFICATIONS

REF: ACS

| Sr. No. | TEST PARAMETER                             | SPECIFICATION            |
|---------|--------------------------------------------|--------------------------|
| 1.      | Description                                | Colorless or white solid |
| 2.      | Solubility                                 | Soluble in water         |
| 3.      | pH (5% aqueous solution)                   | 5.4 – 8.6                |
| 4.      | Insoluble matter                           | Max. 50 ppm              |
| 5.      | Iodide (I)                                 | Max. 20 ppm              |
| 6.      | Bromide (Br)                               | Max. 100 ppm             |
| 7.      | Chlorate and Nitrate (as NO <sub>3</sub> ) | Max. 30 ppm              |
| 8.      | Phosphate (PO <sub>4</sub> )               | Max. 5 ppm               |
| 9.      | Sulfate (SO <sub>4</sub> )                 | Max. 10 ppm              |
| 10.     | Barium (Ba)                                | Passes test              |
| 11.     | Heavy metals (as Pb)                       | Max. 5 ppm               |
| 12.     | Iron (Fe)                                  | Max. 3 ppm               |
| 13.     | Calcium (Ca)                               | Max. 20 ppm              |
| 14.     | Magnesium (Mg)                             | Max. 10 ppm              |
| 15.     | Sodium (Na)                                | Max. 50 ppm              |
| 16.     | Assay                                      | 99.0 % – 100.5 %         |

## REVISION HISTORY:

| Revision No. | Effective Date | Revision Description | Change Control No. |
|--------------|----------------|----------------------|--------------------|
| 00           | 14/08/2021     | First Issuance       | N A                |

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