



## ANALYSIS CERTIFICATE

**Lot/Analysis/Analysis N°: 215604**

|                   |                                              |
|-------------------|----------------------------------------------|
| Product:          | TARTARIC ACID POWDER                         |
| Lot:              | 215604                                       |
| Expiry date:      | 01/10/2031                                   |
| Reference:        | Cumple PhEur10.5                             |
| Synonyms:         | Acido L-(+)-tartárico. E-334.                |
| Formula:          | C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> |
| Molecular weight: | 150,09 g/mol                                 |

| Assay                                    | Result        | Specification        |
|------------------------------------------|---------------|----------------------|
| Assay (acid-base)                        | 100,2 %       | 99,5-101,0%          |
| Sulphated ashes                          | 0,02 %        | <= 0,1 %             |
| Organoleptic properties                  | Conform       | Ph. Eur.             |
| Identification                           | Conform (A,B) | Test Ph. Eur. (A,B)  |
| Oxalic Acid (oxalate)                    | <= 360 ppm    | <= 360 ppm (anhidro) |
| Appearance of the S solution (10% water) | Conform       |                      |
| Sulphates                                | <= 150 ppm    | <= 150 ppm           |
| Chlorides                                | <= 100 ppm    | <= 100 ppm           |
| Heavy metals                             | <= 10 ppm     | < = 10 ppm           |
| Calcium                                  | <= 200 ppm    | <= 200 ppm           |
| Loss on drying (105°C)                   | 0,04 %        | <= 0,2%              |
| Specific rotation                        | +12,3°        | (+12,0°) - (+12,8°)  |

Organoleptic characteristics:

Conservation: In tightly closed containers. Protect from light.

Date of analysis: 25/10/2021

Judgement:  
APPROVED

Responsible: M. Mesa

Technical director: Montserrat Enrique

| Product | Name                             | Capacity | Batch      |
|---------|----------------------------------|----------|------------|
| 1102666 | ACIDO TARTARICO POLVO            | 250 g    | 215604-N-1 |
| 1102666 | ACIDO TARTARICO POLVO            | 250 g    | 215604-N-2 |
| 1102666 | ACIDO TARTARICO POLVO            | 250 g    | 215604-N-3 |
| 1102666 | ACIDO TARTARICO POLVO            | 250 g    | 215604-N-4 |
| 1102667 | ACIDO TARTARICO POLVO (INACTIVO) | 500 g    | 215604-O-1 |
| 1102669 | ACIDO TARTARICO POLVO            | 1 kg     | 215604-P-1 |
| 1102669 | ACIDO TARTARICO POLVO            | 1 kg     | 215604-P-2 |
| 1102669 | ACIDO TARTARICO POLVO            | 1 kg     | 215604-P-3 |

|         |                       |       |            |
|---------|-----------------------|-------|------------|
| 1102669 | ACIDO TARTARICO POLVO | 1 kg  | 215604-P-4 |
| 1102672 | ACIDO TARTARICO POLVO | 25 kg | 215604-T-1 |

This certificate is not initialled as it is computer processed, it is validated with the originals available at Acofarma.

Original manufacturer's certificate available on request.

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