

# CERTIFICATE OF ANALYSIS

AIPSA

WHITE SUGAR TYPE A

BRAND:  
LUNA

|                  |               |
|------------------|---------------|
| DATE:            | 01.12.2020    |
| LOT:             | 063-1554      |
| PRODUCT OF:      | SOUTH AMERICA |
| NET WEIGHT       | 50LB/22.68KG  |
| PRODUCTION DATE: | 12.15.2020    |
| EXPIRATION DATE: | 12.15.2023    |

IDENTIFICATION: Sugar produced with these specifications is identified under the following numbering from 00 to 500; from 3500 to 3501; from 5001 to 13900.

| IDENTIFICATION: Sugar produced with these specifications is identified under the following numbering from 00 to 500, from 5500 to 6000, from 6500 to 7000, from 7500 to 8000, from 8500 to 9000, from 9500 to 10000 |   |   |                                 |                        |           |
|---|---|---|---------------------------------|------------------------|-----------|
| ESPECIFICACIONES ORGANOLEPTICAS/<br>ORGANOLEPTIC SPECIFICATIONS   | METODO/ METHOD  | ESPECIFICACION O TOLERANCIA/ CLIENT'S<br>REQUIREMENTS |                                 | RESULTADOS/<br>RESULTS |           |
| APARIENCIA/ appearance  | Evaluación Sensorial/ Sensory<br>test                               | #REF!   |                                 | CUMPLE/ OK             |           |
| COLOR/ Odor   |   | Libre de olores extraños                              |                                 | CUMPLE/ OK             |           |
| SABOR/ Flavor   |   | Característico y libre de sabores extraños            |                                 | CUMPLE/ OK             |           |
| ESPECIFICACIONES FISICOQUIMICAS/<br>PHYSICAL-CHEMICAL SPECIFICATIONS  | METODO/ METHOD  | ESPECIFICACION O TOLERANCIA/ CLIENT'S<br>REQUIREMENTS |                                 | RESULTADOS/<br>RESULTS |           |
|   |   |   |                                 | Mínimo                 | Máximo    |
| COLOR/ COLOR IN ICUMSA AT 420 nm WAVE<br>LENGTH (UI)  | ICUMSA-GS 1/3-7   | Máximo/Maximum<br>45 UI                               |                                 | 14                     | 45        |
| TURBIEDAD / TURBIDITY IN ICUMSA UNITS AT 420<br>nm WAVE LENGTH (UI)   | ICUMSA-GS 2/3-18  | Máximo/Maximum<br>30 UI                               |                                 | 4                      | 22        |
| POL/ POLARIZATION(°Z) AT 20°C   | NTC 586   | Mínimo/ Minimum<br>99,8 °Z                            |                                 | 99.81                  | 99.92     |
| HUMEDAD/ HUMIDITY PERCENTAGE(%)   | NTC 572<br>METODO B   | Máximo/Maximum<br>0,05 %                              |                                 | 0.020                  | 0.040     |
| CENIZAS CONDUCTOMETRICAS/<br>CONDUCTIMETRIC ASHES PERCENTAGE (%)  | NTC 570<br>METODO 2   | Máximo/Maximum<br>0,04 %                              |                                 | 0.006                  | 0.011     |
| AZUCARES REDUCTORES/ INVERT SUGAR (%)   | ICUMSA GS 2/3/9-5   | Máximo/Maximum<br>0,05 %                              |                                 | 0.002                  | 0.023     |
| TAMAÑO DE GRANO/ SCREEN No. 20 RETENTION<br>PERCENTAGE ( % DE RETENCION MALLA 20)   | ICUMSA- GS 2/37   | N.E.  |                                 | 1.06                   | 13.71     |
| ESPECIFICACIONES MICROBIOLÓGICAS/<br>MICROBIOLOGICAL SPECIFICATIONS   | METODO/ METHOD<br>(Filtración por membrana/<br>membrane filtration) | ESPECIFICACION O TOLERANCIA/ CLIENT'S<br>REQUIREMENTS |                                 | RESULTADOS/<br>RESULTS |           |
|   |   |   |                                 | Mínimo                 | Máximo    |
| RECuento DE BACTERIAS MESÓFILAS/<br>RECOUNT OF AEROBIC MESOPHILIC BACTERIA<br>(UFC/10g)   | NTC 3906  | <300 (UFC/10g)  |                                 | 1                      | 10        |
| RECuento DE COLIFORMES TOTALES/<br>COLIFORM TOTAL PLATE COUNT (UFC/10g)**   | NTC 3905  | <80 (UFC/10g)   |                                 | ...                    | 0         |
| RECuento DE COLIFORMES FECALES/E.Coli<br>(UFC/10g)  | NTC 4306  | 0 UFC/g   |                                 | ...                    | 0         |
| RECuento DE MOHOS/ TOTAL PLATE COUNT<br>FOR MOULDS (UFC/10g)  | NTC 3907  | <100 (UFC/10g)  |                                 | 1                      | 3         |
| RECuento DE LEVADURAS/ TOTAL PLATE<br>COUNT FOR YEASTS (UFC/10g)  |   | <100 (UFC/10g)  |                                 | 4                      | 9         |
| METALES PESADOS/ HEAVY METALS   | METODO/ METHOD  | ESPECIFICACION O TOLERANCIA/ CLIENT'S<br>REQUIREMENTS |                                 | RESULTADOS/<br>RESULTS |           |
| HIERRO ( EXPRESADO COMO Fe en mg/kg)*   | ICUMSA- GS2/3/7/8-31<br>Colorimetría                                |   |                                 | 0.078 mg/kg            |           |
| ARSÉNICO/ ARSENIC (As) (EXPRESADO COMO As en mg/kg)   | ICUMSA- GS 2/3-23<br>Absorción Atómica                              | Máximo/Maximum<br>1,0 mg/kg                           |                                 | <0,010                 |           |
| COBRE/ COPPER (Cu) (EXPRESADO COMO Cu en mg/kg)   | ICUMSA- GS 2/3-29<br>Absorción Atómica                              | Máximo/Maximum<br>1,0 mg/kg                           |                                 | 0.115                  |           |
| PLOMO/ LEAD (Pb) (EXPRESADO COMO Pb en mg/kg)   | ICUMSA- GS 2/3-24<br>Absorción Atómica                              | Máximo/Maximum<br>1,0 mg/kg                           |                                 | <0,010                 |           |
| NOTES: Analysis results are average values of the analysis done to the production comprised in the specified numbering. The quality of this product depends on adequate storage conditions.                         |   |   |                                 |                        |           |
| AVENIDA FERROCARRIL 212 DISTRITO DE PARAMONGA, BARRANCA, LIMA,PERU  |   |   | AGROINDUSTRIAL PARAMONGA S.A.A. |                        | FSSC22000 |