

**CODIGO :**  
**NOMBRE PACIENTE :**  
**FECHA DE NACIMIENTO :**  
**NOMBRE RESPONSABLE :**  
**DOC.IDENTIDAD DE LA MADRE :**  
**FECHA TOMA DE MUESTRA :**  
**FECHA DE IMPRESIÓN :**

**173055**  
**ZOE ISABELLA LANCHEROS CONTRERAS**  
**17/02/2026**  
**LISA FERNANDA CONTRERAS ROBAYO**  
**1,053,346,198**  
**14/04/2026**  
**07/05/2026**

**SEXO : FEMENINO**  
**REGISTRO CIVIL : 1,053,356,451**  
**TIPO DE MUESTRA : TALÓN**  
**PESO : 2965**



TAMIZAJE NEONATAL

ANÁLISIS MUESTRA DE SANGRE

|                                                            | RESULTADO | VALORES DE REFERENCIA                                                     | INTERPRETACIÓN                    |
|------------------------------------------------------------|-----------|---------------------------------------------------------------------------|-----------------------------------|
| T.S.H Neonatal                                             | 2.12      | >= 6 µl/mL talón en prematuros<br>>= 10 µl/mL talón<br>>= 15 µl/mL cordón | Normal                            |
| Deficiencia de G6PDH                                       | 6.70      | > 2.6 U/gHb                                                               | Normal                            |
| TÉCNICA: Fluoroimmunoensayo (Delfia).                      |           |                                                                           | Procesado en Colombia por PREGEN. |
| Hemoglobinopatías                                          | FA        | Ausencia de hemoglobinas anormales                                        | Normal                            |
| TÉCNICA: Cromatografía Líquida de Alto Rendimiento (HPLC). |           |                                                                           | Procesado en Colombia por PREGEN. |

TAMIZAJE AMPLIADO

ESPECTROMETRIA DE MASAS EN TANDEM

Procesado en Archimedlife international medical laboratory. 1110 Vienna.

|                                                                                      |                                   |        |
|--------------------------------------------------------------------------------------|-----------------------------------|--------|
| DESORDENES DE AMINOÁCIDOS                                                            |                                   |        |
| Citrulina, Metionina, Leucina, Isoleucina, Valina, Fenilalanina, Tirosina.           |                                   |        |
|                                                                                      | Ausencia de metabolitos anormales | Normal |
| PERFIL DE ACILCARNITINAS                                                             |                                   |        |
| C16, C18, C18:1, C16OH, C18:1OH, C8, C10:1, C5, C5DC, C4, C14, C14:1, C5OH, C3, C5:1 |                                   |        |
|                                                                                      | Ausencia de metabolitos anormales | Normal |
| RESULTADOS NORMALES                                                                  |                                   |        |

Recuerde que estas son pruebas de tamizaje que solo indican la probabilidad de que el recién nacido tenga una de las enfermedades estudiadas por el programa y pueden requerir pruebas adicionales para la confirmación de algún diagnóstico. La sensibilidad de estas pruebas se reduce a medida que aumenta la edad del paciente, por esto es conveniente realizarlas dentro del primer mes de nacido.

**REVISADO :**  
**EDUVILIA JOHANA GOMEZ**  
**Bacterióloga**  
**Reg. 40.936.003**

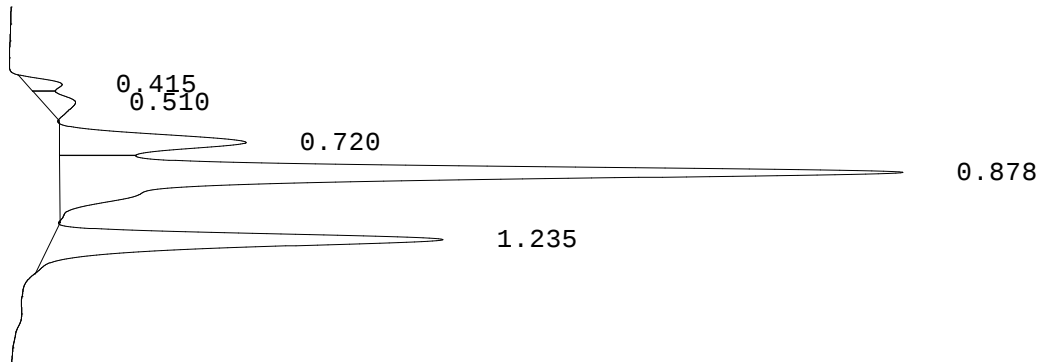
**PROCESADO :**  
**MARIA JOSE PINZON GARCIA**  
**Bacterióloga**  
**Reg. 1.015.469.392**

**FECHA :**  
**07/05/2026**

- - - - -  
`LABORATORIO PREGEN  
Carrera 15a No 106-42  
BOGOTA

Batch 2124, Rack A, Plate 1, Well H07, 173055  
[89334CF65261F13F] Apr 16, 2026 13:18:28 Pressure = 61 bar (61 to 63)

FA



| PEAK        | RT    | REL | RT   | % CONC | AREA   | COMMENT           |
|-------------|-------|-----|------|--------|--------|-------------------|
| 1           | 0.415 | F   | 0.48 | 1.6%   | 11279  |                   |
| 2           | 0.510 | F   | 0.59 | 2.7%   | 18142  |                   |
| 3           | 0.720 | F   | 0.83 | 13.6%  | 92970  | Acetylated F peak |
| 4           | 0.878 | F   | 1.01 | 57.5%  | 393833 | Consistent with F |
| 5           | 1.235 | A   | 1.00 | 24.6%  | 168358 | A peak - REVIEW   |
| Total Area: |       |     |      |        | 684582 |                   |

Codes: 1) Wide A peak  
2) Area of A peak < 80%  
3) Peak area greater than expected  
4) Peak after A2  
5) A1c > 10%  
6) HbF or variant present  
7) Total sample area too small/big  
8) A2 is not within normal range

Dr. MARIA JOSE PINZON GARCIA  
RED COLOMBIANA DE MEDICINA GENETICA SAS - PREGN  
BOGOTA  
CARRERA 15 A # 106 - 42  
11001 BOGOTA  
Colombia

Date of Report 06.05.2026  
Sample Received 23.04.2026  
Date of Sampling 14.04.2026  
LAB-ID 262017978

## Medical Report

|               |                                         |           |          |
|---------------|-----------------------------------------|-----------|----------|
| Patient name  | <b>LANCHEROS CONTRERAS ZOE ISABELLA</b> | Sample-ID | A0361782 |
| Date of Birth | <b>17.02.2026</b>                       | Gender    | F        |

**Indication:** Newborn Screening

**Method(s):** Immunoassay, Tandem mass spectrometry from Dried Blood Spot. qPCR from Dried Blood Spot.

**Results:**

| Parameter                                | Value    | Unit   | Reference |
|------------------------------------------|----------|--------|-----------|
| Birth weight (g)                         | 2965     | g      | -         |
| 17-hydroxyprogesterone (17OHP)           | <5.0     | nmol/L | < 90.0    |
| Thyroid-stimulating hormone (TSH)        | 1.1      | μU/mL  | < 15.0    |
| Biotinidase                              | 231.4    | U      | > 51.0    |
| Galactose-1-P-uridylyltransferase (GALT) | 8.7      | U/g Hb | > 2.5     |
| Immunoreactive trypsinogen (IRT)         | <15      | ng/mL  | < 65.0    |
| Phenylalanine                            | 43.1     | μmol/L | < 150.0   |
| Amino acid profile                       | negative |        | -         |
| Acylcarnitine profile                    | negative |        | -         |

**Interpretation:** NEGATIVE RESULT

### Contact Details

Assoc.-Prof. Dr. Andrea-Romana KASPER, MD, PhD  
E-Mail: [info@archimedlife.com](mailto:info@archimedlife.com)

|               |                                         |
|---------------|-----------------------------------------|
| Patient name  | <b>LANCHEROS CONTRERAS ZOE ISABELLA</b> |
| Date of Birth | <b>17.02.2026</b>                       |

|           |          |
|-----------|----------|
| Sample-ID | A0361782 |
| Gender    | F        |

## Results:

### Amino Acids

| Parameter                                | Value | Unit   | Reference    |
|------------------------------------------|-------|--------|--------------|
| Phenylalanine (Phe)                      | 43.1  | µmol/L | < 150.0      |
| Phenylalanine / Tyrosine ratio (Phe/Tyr) | 0.43  | µmol/L | < 2.20       |
| Tyrosine (Tyr)                           | 99.9  | µmol/L | < 200.0      |
| Leucine (Leu)                            | 162.5 | µmol/L | < 270.0      |
| Valine (Val)                             | 90.5  | µmol/L | < 200.0      |
| Methionine (MET)                         | 25.4  | µmol/L | < 78.0       |
| Methionine / Phenylalanine (Met/Phe)     | 0.59  | µmol/L | < 1.60       |
| Citrulline (Cit)                         | 22.0  | µmol/L | < 50.0       |
| Ornithine (Orn)                          | 199.7 | µmol/L | < 250.0      |
| Ornithine / Citrulline ratio (Orn/Cit)   | 9.08  | µmol/L | 1.50 - 20.00 |
| Proline (Pro)                            | 249.7 | µmol/L | < 350.0      |
| Alanine (Ala)                            | 313.7 | µmol/L | < 750.0      |
| Arginine (Arg)                           | 43.6  | µmol/L | < 100.0      |
| Aspartic acid (Asp)                      | 87.4  | µmol/L | < 100.0      |
| Glutamic acid (Glu)                      | 409.5 | µmol/L | < 600.0      |
| Glycamine (Gly)                          | 325.1 | µmol/L | < 700.0      |

### Acylcarnitines

|                                          |       |        |               |
|------------------------------------------|-------|--------|---------------|
| Free carnitine (C0)                      | 23.42 | µmol/L | 6.00 - 100.00 |
| acetylcarnitine (C2)                     | 11.85 | µmol/L | 1.34 - 48.81  |
| propionylcarnitine (C3)                  | 1.98  | µmol/L | 0.13 - 6.60   |
| butyryl-/isobutyrylcarnitine (C4)        | 0.16  | µmol/L | 0.03 - 0.90   |
| isovaleryl-/2-methylbutyrylcarnitine(C5) | 0.29  | µmol/L | 0.02 - 2.00   |
| tiglylcarnitine (C5:1)                   | 0.02  | µmol/L | < 0.20        |
| hydroxyvalerylcarnitine (C5OH)           | 0.33  | µmol/L | 0.02 - 0.57   |
| glutarylacarnitine (C5DC)                | 0.03  | µmol/L | < 0.30        |
| hexanoylcarnitine (C6)                   | 0.04  | µmol/L | 0.01 - 0.13   |
| octanoylcarnitine (C8)                   | 0.03  | µmol/L | 0.01 - 0.30   |
| decanoylcarnitine (C10)                  | 0.02  | µmol/L | 0.01 - 0.36   |
| decenoylcarnitine (C10:1)                | 0.08  | µmol/L | < 0.30        |
| decadienoylcarnitine (C10:2)             | 0.12  | µmol/L | < 0.10        |
| dodecanoylcarnitine (C12)                | 0.04  | µmol/L | 0.10 - 0.60   |
| myristoylcarnitine (C14)                 | 0.08  | µmol/L | 0.01 - 0.57   |
| tetradecenoylcarnitine (C14:1)           | 0.05  | µmol/L | 0.10 - 0.38   |
| palmitoylcarnitine (C16)                 | 0.59  | µmol/L | 0.62 - 7.81   |
| 3-hydroxypalmitoylcarnitine (C16OH)      | 0.02  | µmol/L | < 0.10        |
| stearoylcarnitine (C18)                  | 0.31  | µmol/L | 0.30 - 2.40   |
| oleylcarnitine (C18:1)                   | 1.36  | µmol/L | 0.06 - 3.86   |
| 3-hydroxystearoylcarnitine (C18OH)       | 0.01  | µmol/L | < 0.09        |
| malonylcarnitine (C3DC)                  | 0.05  | µmol/L | < 0.50        |

Amino acid levels are indicators of phenylketonuria, tyrosinemia, MSUD, hydroxyprolinuria, hypermethioninemia (homocystinuria), citrullinemia, argininosuccinate aziduria, hyperargininemia, and hyperprolinemia. Acylcarnitine levels are indicators of carnitine uptake disorders, CPT-I deficiency, CPT-II deficiency, CAT deficiency, propionaciduria, methylmalonic aciduria, malonic aciduria, SCAD deficiency/ethylmalonic aciduria, isovaleric aciduria, HMG-CoA lyase deficiency, 3-methylcrotonyl-CoA carboxylase deficiency, methylglutaconiduria, MCAD deficiency, VLCAD deficiency, LCHAD deficiency, glutaraziduria I, multiple acyl-CoA dehydrogenase deficiency (MAD deficiency/glutaraziduria II), and Beta-ketothiolase deficiency.

Please note: Inconspicuous negative biochemical results cannot exclude any inborn error of metabolism or endocrine disorder with certainty in newborns. We recommend any follow-up or genetic testing if any clinical symptoms are present.

**Authorized By:** Assoc.-Prof. Dr. Andrea-Romana KASPER, MD, PhD  
[Specialist for Pediatrics, Neonatology and Nutrition]

Report was electronically signed and approved.

**Contact Details**  
Assoc.-Prof. Dr. Andrea-Romana KASPER, MD, PhD  
E-Mail: [info@archimedlife.com](mailto:info@archimedlife.com)

**ARCHIMEDlife GmbH**  
International Medical Laboratory+  
Leberstrasse 20/2 | 1110 Vienna, Austria  
[www.archimedlife.com](http://www.archimedlife.com)