

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

**173896**  
**ETHAN DAVID GOMEZ HERNANDEZ**  
**09/05/2026**  
**ELIZABETH ROCIO HERNANDEZ FORERO**  
**1,024,536,594**  
**01/07/2026**  
**22/07/2026**

**SEXO : MASCULINO**  
**REGISTRO CIVIL: 1,024,623,059**  
**TIPO DE MUESTRA : TALÓN**  
**PESO : 2905**



TAMIZAJE NEONATAL

ANÁLISIS MUESTRA DE SANGRE

|                                                            | RESULTADO   | VALORES DE REFERENCIA                                                        | INTERPRETACIÓN |
|------------------------------------------------------------|-------------|------------------------------------------------------------------------------|----------------|
| T.S.H Neonatal                                             | 1.53 µUL/mL | >= 6 µUL/mL talón en prematuros<br>>= 10 µUL/mL talón<br>>= 15 µUL/mL cordón | Normal         |
| Deficiencia de G6PDH                                       | 5.10 U/gHb  | < 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**

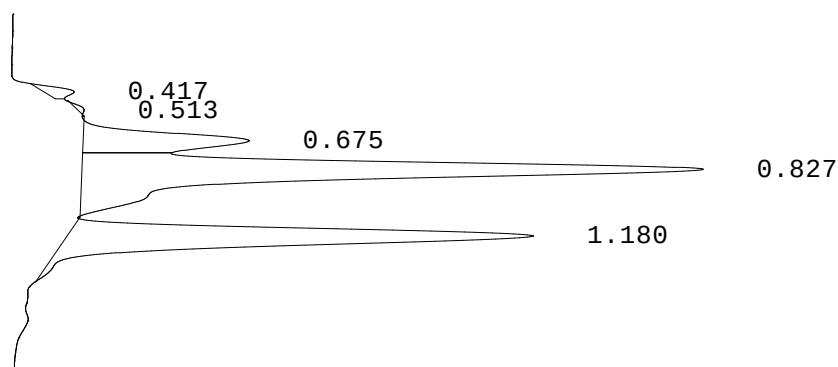
**PROCESADO :**  
**MARIA JOSE PINZON GARCIA**  
**Bacterióloga**  
**Reg. 1.015.469.392**

**FECHA :**  
**22/07/2026**

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

Batch 2191, Rack A, Plate 1, Well F02, 173896  
[9D29942AE4DF3937] Jul 06, 2026 13:47:50 Pressure = 79 bar (78 to 81)

FA



| PEAK        | RT    | REL | RT   | % CONC | AREA   | COMMENT           |
|-------------|-------|-----|------|--------|--------|-------------------|
| 1           | 0.417 | F   | 0.50 | 1.2%   | 8573   |                   |
| 2           | 0.513 | F   | 0.62 | 0.3%   | 2220   |                   |
| 3           | 0.675 | F   | 0.81 | 12.2%  | 84710  | Acetylated F peak |
| 4           | 0.827 | F   | 0.99 | 51.4%  | 356426 | Consistent with F |
| 5           | 1.180 | A   | 1.02 | 34.8%  | 241463 | A peak - REVIEW   |
| Total Area: |       |     |      |        | 693392 |                   |

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 11.07.2026  
Sample Received 09.07.2026  
Date of Sampling 01.07.2026  
LAB-ID 262031120

## Medical Report

|               |                                    |           |          |
|---------------|------------------------------------|-----------|----------|
| Patient name  | <b>GOMEZ HERNANDEZ ETHAN DAVID</b> | Sample-ID | A0358446 |
| Date of Birth | <b>09.05.2026</b>                  | Gender    | M        |

**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)                       | 2905     | g      | -         |
| 17-hydroxyprogesterone (17OHP)         | 5.4      | nmol/L | < 90.0    |
| Thyroid-stimulating hormone (TSH)      | <0.7     | μU/mL  | < 15.0    |
| Biotinidase                            | 251.2    | U      | > 51.0    |
| Galactose-1-P-uridyltransferase (GALT) | 7.2      | U/g Hb | > 2.5     |
| Immunoreactive trypsinogen (IRT)       | <15      | ng/mL  | < 65.0    |
| Phenylalanine                          | 38.6     | 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>GOMEZ HERNANDEZ ETHAN DAVID</b> |
| Date of Birth | <b>09.05.2026</b>                  |

|           |          |
|-----------|----------|
| Sample-ID | A0358446 |
| Gender    | M        |

## Results:

### Amino Acids

| Parameter                                | Value | Unit   | Reference    |
|------------------------------------------|-------|--------|--------------|
| Phenylalanine (Phe)                      | 38.6  | µmol/L | < 150.0      |
| Phenylalanine / Tyrosine ratio (Phe/Tyr) | 0.49  | µmol/L | < 2.20       |
| Tyrosine (Tyr)                           | 78.8  | µmol/L | < 200.0      |
| Leucine (Leu)                            | 129.8 | µmol/L | < 270.0      |
| Valine (Val)                             | 50.8  | µmol/L | < 200.0      |
| Methionine (MET)                         | 21.9  | µmol/L | < 78.0       |
| Methionine / Phenylalanine (Met/Phe)     | 0.57  | µmol/L | < 1.60       |
| Citrulline (Cit)                         | 10.4  | µmol/L | < 50.0       |
| Ornithine (Orn)                          | 110.4 | µmol/L | < 250.0      |
| Ornithine / Citrulline ratio (Orn/Cit)   | 10.62 | µmol/L | 1.50 - 20.00 |
| Proline (Pro)                            | 81.3  | µmol/L | < 350.0      |
| Alanine (Ala)                            | 200.5 | µmol/L | < 750.0      |
| Arginine (Arg)                           | 22.2  | µmol/L | < 100.0      |
| Aspartic acid (Asp)                      | 26.7  | µmol/L | < 100.0      |
| Glutamic acid (Glu)                      | 207.4 | µmol/L | < 600.0      |
| Glycamine (Gly)                          | 124.4 | µmol/L | < 700.0      |

### Acylcarnitines

|                                          |       |        |               |
|------------------------------------------|-------|--------|---------------|
| Free carnitine (C0)                      | 37.03 | µmol/L | 6.00 - 100.00 |
| acetylcarnitine (C2)                     | 15.68 | µmol/L | 1.34 - 48.81  |
| propionylcarnitine (C3)                  | 2.22  | µmol/L | 0.13 - 6.60   |
| butyryl-/isobutyrylcarnitine (C4)        | 0.21  | µmol/L | 0.03 - 0.90   |
| isovaleryl-/2-methylbutyrylcarnitine(C5) | 0.12  | µmol/L | 0.02 - 2.00   |
| tiglylcarnitine (C5:1)                   | 0.01  | µmol/L | < 0.20        |
| hydroxyvalerylcarnitine (C5OH)           | 0.56  | µmol/L | 0.02 - 0.57   |
| glutarylacarnitine (C5DC)                | 0.04  | 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)                  | 0.04  | µmol/L | 0.01 - 0.36   |
| decenoylcarnitine (C10:1)                | 0.11  | µmol/L | < 0.30        |
| dodecanoylcarnitine (C12)                | 0.06  | µmol/L | 0.10 - 0.60   |
| myristoylcarnitine (C14)                 | 0.17  | µmol/L | 0.01 - 0.57   |
| tetradecenoylcarnitine (C14:1)           | 0.09  | µmol/L | 0.10 - 0.43   |
| palmitoylcarnitine (C16)                 | 1.19  | µmol/L | 0.62 - 7.81   |
| 3-hydroxypalmitoylcarnitine (C16OH)      | 0.04  | µmol/L | < 0.10        |
| stearoylcarnitine (C18)                  | 0.38  | µmol/L | 0.30 - 2.40   |
| oleylcarnitine (C18:1)                   | 2.57  | 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

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