



**CODIGO :** 173633  
**NOMBRE PACIENTE :** ZOE VICTORIA ZAPATA UMAÑA **SEXO :** FEMENINO  
**FECHA DE NACIMIENTO :** 04/03/2026 **REGISTRO CIVIL:** 1,070,998,526  
**NOMBRE RESPONSABLE :** YENNY ANDREA UMAÑA AVILA  
**DOC.IDENTIDAD DE LA MADRE :** 1,070,981,840  
**FECHA TOMA DE MUESTRA :** 03/06/2026 **TIPO DE MUESTRA :** TALÓN  
**FECHA DE IMPRESIÓN :** 24/06/2026 **PESO :** 780

## TAMIZAJE NEONATAL

### ANÁLISIS MUESTRA DE SANGRE

	RESULTADO	VALORES DE REFERENCIA	INTERPRETACIÓN
T.S.H Neonatal	1.11 µU/L/mL	>= 6 µU/L/mL talón en prematuros >= 10 µU/L/mL talón >= 15 µU/L/mL cordón	Normal
Deficiencia de G6PDH	7.20 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, C50H, C3, C5:1

Ausencia de metabolitos anormales Normal

#### RESULTADOS NORMALES

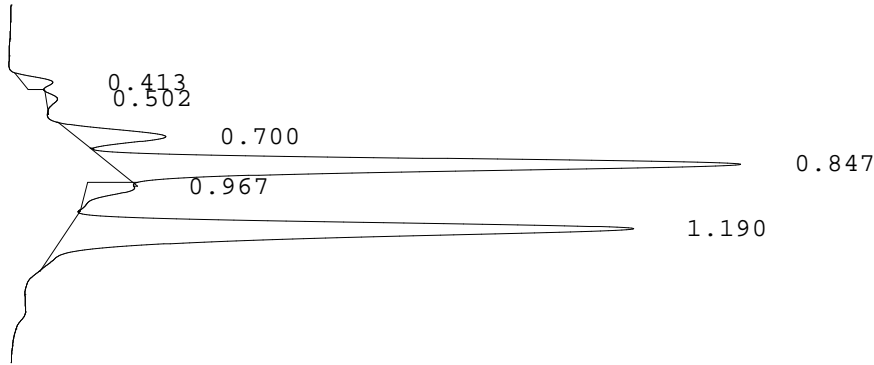
Recuerde que estas son pruebas de tamizaje que solo indican la probabilidad de que el recién nacido tenga una de las enfermedades estudiadas por el programa y pueden requerir pruebas adicionales para la confirmación de algún diagnóstico. La sensibilidad de estas pruebas se reduce a medida que aumenta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

**REVISADO :** EDUVILIA JOHANA GOMEZ **PROCESADO :** MARIA JOSE PINZON GARCIA **FECHA :**  
Bacterióloga Bacterióloga  
Reg. 40.936.003 Reg. 1.015.469.392 24/06/2026

LABORATORIO PREGEN  
Carrera 15a No 106-42  
BOGOTA

Batch 2169, Rack A, Plate 1, Well E05, 173633  
[9D7DB9AB12C731BF] Jun 05, 2026 14:58:52 Pressure = 64 bar (64 to 66)

FA



PEAK	RT	REL RT	% CONC	AREA	COMMENT
1	0.413	F 0.49	1.6%	9309	
2	0.502	F 0.59	0.7%	3807	
3	0.700	F 0.83	6.1%	35483	Acetylated F peak
4	0.847	F 1.00	42.5%	246521	Consistent with F
5	0.967	F 1.15	3.6%	20638	
6	1.190	A 1.01	45.5%	264145	A peak - REVIEW
Total Area:				579903	

- Codes:
- 1) Wide A peak
  - 2) Area of A peak < 80%
  - 3) Peak area greater than expected
  - 4) Peak after A2
  - 5) Alc > 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 - PREGEN  
BOGOTA  
CARRERA 15 A # 106 - 42  
11001 BOGOTA  
Colombia

Date of Report 17.06.2026  
Sample Received 10.06.2026  
Date of Sampling 03.06.2026  
LAB-ID 262026079

## Medical Report

Patient name	ZAPATA UMAÑA ZOE VICTORIA	Sample-ID	A0358630
Date of Birth	04.03.2026	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)	780	g	-
17-hydroxyprogesterone (17OHP)	<5.0	nmol/L	< 90.0
Thyroid-stimulating hormone (TSH)	2.3	µU/mL	< 15.0
Biotinidase	256.2	U	> 51.0
Galactose-1-P-uridyltransferase (GALT)	8.7	U/g Hb	> 2.5
Immunoreactive trypsinogen (IRT)	<15	ng/mL	< 65.0
Phenylalanine	52.6	µmol/L	< 150.0
Amino acid profile	negative		-
Acylcarnitine profile	negative		-

**Interpretation:** NEGATIVE RESULT

Patient name	ZAPATA UMAÑA ZOE VICTORIA
Date of Birth	04.03.2026

Sample-ID	A0358630
Gender	F

## Results:

Parameter	Value	Unit	Reference
Phenylalanine (Phe)	52.6	µmol/L	< 150.0
Phenylalanine / Tyrosine ratio (Phe/Tyr)	0.64	µmol/L	< 2.20
Tyrosine (Tyr)	81.8	µmol/L	< 200.0
Leucine (Leu)	151.9	µmol/L	< 270.0
Valine (Val)	84.8	µmol/L	< 200.0
Methionine (MET)	25.8	µmol/L	< 78.0
Methionine / Phenylalanine (Met/Phe)	0.49	µmol/L	< 1.60
Citrulline (Cit)	28.0	µmol/L	< 50.0
Ornithine (Orn)	247.3	µmol/L	< 250.0
Ornithine / Citrulline ratio (Orn/Cit)	8.83	µmol/L	1.50 - 20.00
Proline (Pro)	142.4	µmol/L	< 350.0
Alanine (Ala)	280.4	µmol/L	< 750.0
Arginine (Arg)	42.4	µmol/L	< 100.0
Aspartic acid (Asp)	99.6	µmol/L	< 100.0
Glutamic acid (Glu)	278.7	µmol/L	< 600.0
Glycamine (Gly)	511.3	µmol/L	< 700.0
Free carnitine (C0)	23.65	µmol/L	6.00 - 100.00
acetylcarnitine (C2)	16.71	µmol/L	1.34 - 48.81
propionylcarnitine (C3)	2.95	µmol/L	0.13 - 6.60
butyryl-/isobutyrylcarnitine (C4)	0.34	µmol/L	0.03 - 0.90
isovaleryl-/2-methylbutyrylcarnitine(C5)	0.27	µmol/L	0.02 - 2.00
tiglylcarnitine (C5:1)	0.02	µmol/L	< 0.20
hydroxyvalerylcarnitine (C5OH)	0.35	µmol/L	0.02 - 0.57
glutaryl carnitine (C5DC)	0.04	µmol/L	< 0.30
hexanoylcarnitine (C6)	0.05	µmol/L	0.01 - 0.13
octanoylcarnitine (C8)	0.04	µmol/L	0.01 - 0.30
decanoylcarnitine (C10)	0.04	µmol/L	0.01 - 0.36
decenoylcarnitine (C10:1)	0.09	µmol/L	< 0.30
dodecanoylcarnitine (C12)	0.05	µmol/L	0.10 - 0.60
myristoylcarnitine (C14)	0.11	µmol/L	0.01 - 0.57
tetradecenoylcarnitine (C14:1)	0.08	µmol/L	0.10 - 0.43
palmitoylcarnitine (C16)	0.50	µmol/L	0.62 - 7.81
3-hydroxypalmitoylcarnitine (C16OH)	0.02	µmol/L	< 0.10
stearoylcarnitine (C18)	0.37	µmol/L	0.30 - 2.40
oleylcarnitine (C18:1)	3.09	µmol/L	0.06 - 3.86
3-hydroxystearoylcarnitine (C18OH)	0.01	µmol/L	< 0.09
malonylcarnitine (C3DC)	0.05	µmol/L	< 0.50

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.