



CODIGO : 172970
NOMBRE PACIENTE : LIAM GAEL CASTILLO SANCHEZ **SEXO :** MASCULINO
FECHA DE NACIMIENTO : 14/12/2025 **REGISTRO CIVIL :** 1,141,388,595
NOMBRE RESPONSABLE : LEIDY MIREYA CASTILLO SANCHEZ
DOC.IDENTIDAD DE LA MADRE : 1,010,245,951
FECHA TOMA DE MUESTRA : 07/04/2026 **TIPO DE MUESTRA :** TALÓN
FECHA DE IMPRESIÓN : 25/04/2026 **PESO :** 2650

TAMIZAJE NEONATAL

ANÁLISIS MUESTRA DE SANGRE

	RESULTADO	VALORES DE REFERENCIA	INTERPRETACIÓN
T.S.H Neonatal	0.95	>= 6 µl/mL talón en prematuros >= 10 µl/mL talón >= 15 µl/mL cordón	Normal
Deficiencia de G6PDH	6.70	> 2.6 U/gHb	Normal
<i>TÉCNICA: Fluoroimmunoensayo (Delfia).</i>			<i>Procesado en Colombia por PREGEN.</i>
Hemoglobinopatías	A	Cromatograma compatible con posible rasgo	Normal
<i>TÉCNICA: Cromatografía Líquida de Alto Rendimiento (HPLC).</i>			<i>Procesado en Colombia por PREGEN.</i>

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

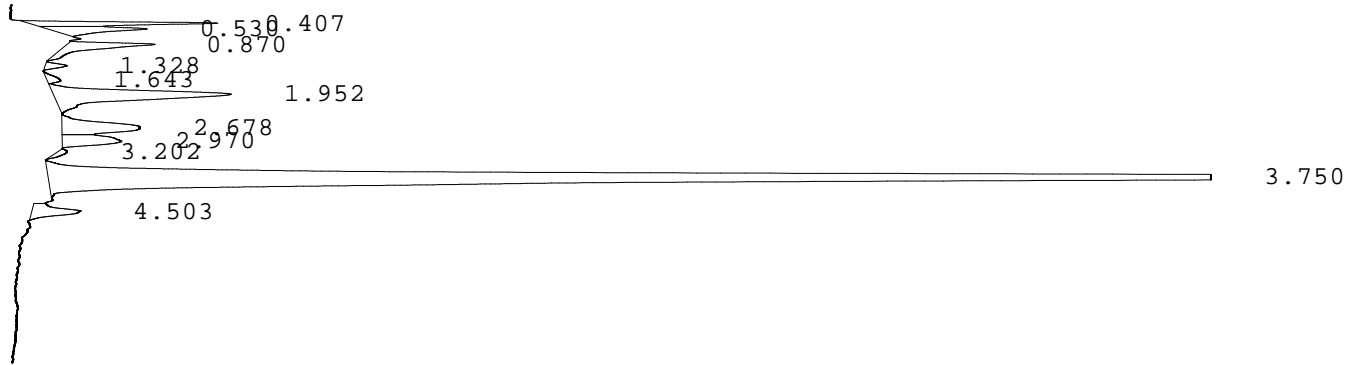
Recuerde que estas son pruebas de tamizaje que solo indican la probabilidad de que el recién nacido tenga una de las enfermedades estudiadas por el programa y pueden requerir pruebas adicionales para la confirmación de algún diagnóstico. La sensibilidad de estas pruebas se reduce a medida que aumenta 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 25/04/2026

LABORATORIO PREGEN
 Carrera 15a No 106-42
 BOGOTA

Batch 2122, Rack A, Plate 1, Well D11, 172970
 [9D2703572BFCAE4A] Apr 13, 2026 15:10:40 Pressure = 60 bar (58 to 61)

A



PEAK	RT	REL RT	% CONC	AREA	COMMENT
1	0.407	F 0.21	3.2%	46999	
2	0.530	F 0.27	2.5%	37188	
3	0.870	F 0.45	2.8%	41754	
4	1.328	F 0.68	0.5%	7144	
5	1.643	F 0.85	0.4%	6614	Alc or possibly HbH
6	1.952	F 1.01	8.8%	130196	6
7	2.678	F 1.38	4.2%	62581	
8	2.970	A 0.79	2.7%	39987	
9	3.202	A 0.86	0.3%	4863	
10	3.750	A 1.00	72.6%	1079059	2 A peak
11	4.503	S 0.86	2.0%	30019	
				Total Area: 1486404	

- 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 24.04.2026
Sample Received 17.04.2026
Date of Sampling 07.04.2026
LAB-ID 262017205

Medical Report

Patient name	CASTILLO SANCHEZ LIAM GAEL	Sample-ID	A0361584
Date of Birth	14.12.2025	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)	2650	g	-
17-hydroxyprogesterone (17OHP)	<5.0	nmol/L	< 90.0
Thyroid-stimulating hormone (TSH)	<0.7	µU/mL	< 15.0
Biotinidase	407.4	U	> 51.0
Galactose-1-P-uridyltransferase (GALT)	9.7	U/g Hb	> 2.5
Immunoreactive trypsinogen (IRT)	15.5	ng/mL	< 65.0
Phenylalanine	26.4	µmol/L	< 150.0
Amino acid profile	negative		-
Acylcarnitine profile	negative		-

Interpretation: NEGATIVE RESULT

Patient name	CASTILLO SANCHEZ LIAM GAEL
Date of Birth	14.12.2025

Sample-ID	A0361584
Gender	M

Results:

Parameter	Value	Unit	Reference
Phenylalanine (Phe)	26.4	µmol/L	< 150.0
Phenylalanine / Tyrosine ratio (Phe/Tyr)	0.56	µmol/L	< 2.20
Tyrosine (Tyr)	47.2	µmol/L	< 200.0
Leucine (Leu)	73.2	µmol/L	< 270.0
Valine (Val)	42.4	µmol/L	< 200.0
Methionine (MET)	23.5	µmol/L	< 78.0
Methionine / Phenylalanine (Met/Phe)	0.89	µmol/L	< 1.60
Citrulline (Cit)	12.0	µmol/L	< 50.0
Ornithine (Orn)	125.5	µmol/L	< 250.0
Ornithine / Citrulline ratio (Orn/Cit)	10.46	µmol/L	1.50 - 20.00
Proline (Pro)	97.1	µmol/L	< 350.0
Alanine (Ala)	146.0	µmol/L	< 750.0
Arginine (Arg)	36.5	µmol/L	< 100.0
Aspartic acid (Asp)	80.3	µmol/L	< 100.0
Glutamic acid (Glu)	172.4	µmol/L	< 600.0
Glycamine (Gly)	223.2	µmol/L	< 700.0
Free carnitine (C0)	25.29	µmol/L	6.00 - 100.00
acetylcarnitine (C2)	19.27	µmol/L	1.34 - 48.81
propionylcarnitine (C3)	1.11	µmol/L	0.13 - 6.60
butyryl-/isobutyrylcarnitine (C4)	0.15	µmol/L	0.03 - 0.90
isovaleryl-/2-methylbutyrylcarnitine(C5)	0.13	µmol/L	0.02 - 2.00
tiglylcarnitine (C5:1)	0.01	µmol/L	< 0.20
hydroxyvalerylcarnitine (C5OH)	0.13	µmol/L	0.02 - 0.57
glutaryl carnitine (C5DC)	0.02	µmol/L	< 0.30
hexanoylcarnitine (C6)	0.05	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)	0.12	µmol/L	< 0.30
decadienoylcarnitine (C10:2)	0.03	µmol/L	< 0.10
dodecanoylcarnitine (C12)	0.04	µmol/L	0.10 - 0.60
myristoylcarnitine (C14)	0.09	µmol/L	0.01 - 0.57
tetradecenoylcarnitine (C14:1)	0.07	µmol/L	0.10 - 0.38
palmitoylcarnitine (C16)	0.93	µmol/L	0.62 - 7.81
3-hydroxypalmitoylcarnitine (C16OH)	0.02	µmol/L	< 0.10
stearoylcarnitine (C18)	0.44	µmol/L	0.30 - 2.40
oleylcarnitine (C18:1)	2.67	µmol/L	0.06 - 3.86
3-hydroxystearoylcarnitine (C18OH)	0.01	µmol/L	< 0.09
malonylcarnitine (C3DC)	0.03	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.