



CODIGO : 172746
NOMBRE PACIENTE : LIAM JESUS CHEN BERMEO **SEXO :** MASCULINO
FECHA DE NACIMIENTO : 12/02/2026 **REGISTRO CIVIL :** 1,016,127,116
NOMBRE RESPONSABLE : LAURA FERNANDA BERMEO TIJARO
DOC.IDENTIDAD DE LA MADRE : 1,118,021,786
FECHA TOMA DE MUESTRA : 16/03/2026 **TIPO DE MUESTRA :** TALÓN
FECHA DE IMPRESIÓN : 06/04/2026 **PESO :** 3170

TAMIZAJE NEONATAL

ANÁLISIS MUESTRA DE SANGRE

	RESULTADO	VALORES DE REFERENCIA	INTERPRETACIÓN
T.S.H Neonatal	0.63	>= 6 µl/mL talón en prematuros >= 10 µl/mL talón >= 15 µl/mL cordón	Normal
Deficiencia de G6PDH	5.20	> 2.6 U/gHb	Normal
<i>TÉCNICA: Fluoroimmunoensayo (Delfia).</i>			<i>Procesado en Colombia por PREGEN.</i>
Hemoglobinopatías	FA	Ausencia de hemoglobinas anormales	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 06/04/2026

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

Date of Report 26.03.2026
Sample Received 24.03.2026
Date of Sampling 16.03.2026
LAB-ID 262013391

Medical Report

Patient name	CHEN BERMEO LIAM JESUS	Sample-ID	A0361745
Date of Birth	12.02.2026	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)	3170	g	-
17-hydroxyprogesterone (17OHP)	<5.0	nmol/L	< 90.0
Thyroid-stimulating hormone (TSH)	<0.7	µU/mL	< 15.0
Biotinidase	278.0	U	> 51.0
Galactose-1-P-uridyltransferase (GALT)	7.3	U/g Hb	> 2.5
Immunoreactive trypsinogen (IRT)	<15	ng/mL	< 65.0
Phenylalanine	28.2	µmol/L	< 150.0
Amino acid profile	negative		-
Acylcarnitine profile	negative		-

Interpretation: NEGATIVE RESULT

Patient name	CHEN BERMEO LIAM JESUS
Date of Birth	12.02.2026

Sample-ID	A0361745
Gender	M

Results:

Amino Acids

Parameter	Value	Unit	Reference
Phenylalanine (Phe)	28.2	µmol/L	< 150.0
Phenylalanine / Tyrosine ratio (Phe/Tyr)	0.45	µmol/L	< 2.20
Tyrosine (Tyr)	62.5	µmol/L	< 200.0
Leucine (Leu)	109.0	µmol/L	< 270.0
Valine (Val)	54.7	µmol/L	< 200.0
Methionine (MET)	18.8	µmol/L	< 78.0
Methionine / Phenylalanine (Met/Phe)	0.67	µmol/L	< 1.60
Citrulline (Cit)	18.0	µmol/L	< 50.0
Ornithine (Orn)	73.0	µmol/L	< 250.0
Ornithine / Citrulline ratio (Orn/Cit)	4.06	µmol/L	1.50 - 20.00
Proline (Pro)	94.4	µmol/L	< 350.0
Alanine (Ala)	138.1	µmol/L	< 750.0
Arginine (Arg)	15.2	µmol/L	< 100.0
Aspartic acid (Asp)	88.5	µmol/L	< 100.0
Glutamic acid (Glu)	241.9	µmol/L	< 600.0
Glycamine (Gly)	110.1	µmol/L	< 700.0

Acylcarnitines

Free carnitine (C0)	13.47	µmol/L	6.00 - 100.00
acetylcarnitine (C2)	8.14	µmol/L	1.34 - 48.81
propionylcarnitine (C3)	0.83	µmol/L	0.13 - 6.60
butyryl-/isobutyrylcarnitine (C4)	0.08	µmol/L	0.03 - 0.90
isovaleryl-/2-methylbutyrylcarnitine(C5)	0.10	µmol/L	0.02 - 2.00
tiglylcarnitine (C5:1)	0.01	µmol/L	< 0.20
hydroxyvalerylcarnitine (C5OH)	0.18	µmol/L	0.02 - 0.57
glutarylacetyl carnitine (C5DC)	0.02	µmol/L	< 0.30
hexanoylcarnitine (C6)	0.04	µmol/L	0.01 - 0.13
octanoylcarnitine (C8)	0.02	µmol/L	0.01 - 0.30
decanoylcarnitine (C10)	0.03	µmol/L	0.01 - 0.36
decenoylcarnitine (C10:1)	0.09	µmol/L	< 0.30
decadienoylcarnitine (C10:2)	0.03	µmol/L	< 0.10
dodecanoylcarnitine (C12)	0.03	µmol/L	0.10 - 0.60
myristoylcarnitine (C14)	0.04	µmol/L	0.01 - 0.57
tetradecenoylcarnitine (C14:1)	0.06	µmol/L	0.10 - 0.38
palmitoylcarnitine (C16)	0.47	µmol/L	0.62 - 7.81
3-hydroxypalmitoylcarnitine (C16OH)	0.01	µmol/L	< 0.10
stearoylcarnitine (C18)	0.30	µmol/L	0.30 - 2.40
oleylcarnitine (C18:1)	1.60	µmol/L	0.06 - 3.86
3-hydroxystearoylcarnitine (C18OH)	0.01	µmol/L	< 0.09
malonylcarnitine (C3DC)	0.02	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

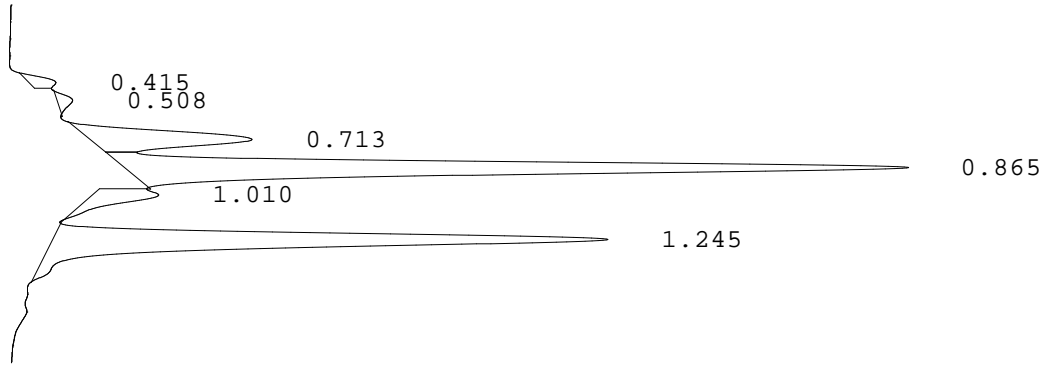
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LABORATORIO PREGEN
Carrera 15a No 106-42
BOGOTA

Batch 2098, Rack A, Plate 1, Well C10, 172746
[8D373B54014EACEA] Mar 19, 2026 12:22:36 Pressure = 60 bar (60 to 61)

FA



PEAK	RT	REL RT	% CONC	AREA	COMMENT
1	0.415	F 0.47	1.2%	8312	
2	0.508	F 0.57	1.0%	6353	
3	0.713	F 0.80	11.6%	77297	
4	0.865	F 0.98	45.3%	301871	Acetylated F peak Consistent with F
5	1.010	F 1.14	4.6%	30999	
6	1.245	A 1.01	36.3%	241851	A peak - REVIEW
Total Area:				666683	

- 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