



CODIGO : 173200
NOMBRE PACIENTE : JUSTIN SMITH ALVAREZ PINZON **SEXO :** MASCULINO
FECHA DE NACIMIENTO : 06/02/2026 **REGISTRO CIVIL :** 1,074,467,078
NOMBRE RESPONSABLE : LEIDY DAYANA PINZON MALAGON
DOC.IDENTIDAD DE LA MADRE : 1,073,154,789
FECHA TOMA DE MUESTRA : 25/04/2026 **TIPO DE MUESTRA :** TALÓN
FECHA DE IMPRESIÓN : 13/05/2026 **PESO :** 2100

TAMIZAJE NEONATAL

ANÁLISIS MUESTRA DE SANGRE

	RESULTADO	VALORES DE REFERENCIA	INTERPRETACIÓN
T.S.H Neonatal	1.44	>= 6 µl/mL talón en prematuros >= 10 µl/mL talón >= 15 µl/mL cordón	Normal
Deficiencia de G6PDH	5.80	> 2.6 U/gHb	Normal
<i>TÉCNICA: Fluoroimmunoensayo (Delfia).</i>			<i>Procesado en Colombia por PREGEN.</i>
Hemoglobinopatías	FAS	Cromatograma compatible con posible rasgo	Anormal *
<i>TÉCNICA: Cromatografía Líquida de Alto Rendimiento (HPLC).</i>			<i>Procesado en Colombia por PREGEN.</i>
<i>* DETECCIÓN DE POSIBLE VARIANTE DE HEMOGLOBINA S</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

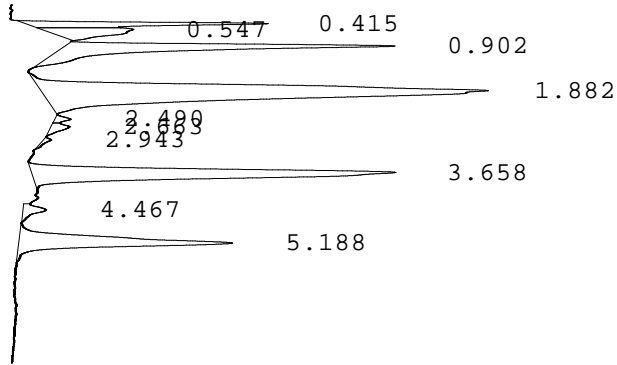
Recuerde que estas son pruebas de tamizaje que solo indican la probabilidad de que el recién nacido tenga una de las enfermedades estudiadas por el programa y pueden requerir pruebas adicionales para la confirmación de algún diagnóstico. La sensibilidad de estas pruebas se reduce a medida que aumenta 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 13/05/2026

LABORATORIO PREGEN
 Carrera 15a No 106-42
 BOGOTA

Batch 2134, Rack A, Plate 1, Well F04, 173200
 [8D734BE832B60CE8] Apr 29, 2026 15:46:21 Pressure = 66 bar (64 to 67)

FAS



PEAK	RT	REL RT	% CONC	AREA	COMMENT
1	0.415	F 0.22	5.8%	69481	
2	0.547	F 0.29	4.4%	52115	
3	0.902	F 0.49	14.3%	169819	
4	1.882	F 1.01	38.8%	462286	Consistent with F
5	2.490	F 1.34	0.5%	5395	
6	2.663	F 1.44	0.8%	9650	
7	2.943	A 0.80	0.3%	3263	
8	3.658	A 1.00	21.7%	258141	A peak - REVIEW
9	4.467	S 0.86	1.1%	13542	3
10	5.188	S 1.00	12.3%	146929	Consistent with S
Total Area: 1190621					A/V=1.76

- 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 08.05.2026
Sample Received 04.05.2026
Date of Sampling 25.04.2026
LAB-ID 262019163

Medical Report

Patient name	ALVAREZ PINZON JUSTIN SMITH	Sample-ID	A0341421
Date of Birth	06.02.2026	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)	2100	g	-
17-hydroxyprogesterone (17OHP)	5.6	nmol/L	< 90.0
Thyroid-stimulating hormone (TSH)	2.6	µU/mL	< 15.0
Biotinidase	170.1	U	> 51.0
Galactose-1-P-uridyltransferase (GALT)	7.9	U/g Hb	> 2.5
Immunoreactive trypsinogen (IRT)	<15	ng/mL	< 65.0
Phenylalanine	39.6	µmol/L	< 150.0
Amino acid profile	negative		-
Acylcarnitine profile	negative		-

Interpretation: NEGATIVE RESULT

Patient name	ALVAREZ PINZON JUSTIN SMITH
Date of Birth	06.02.2026

Sample-ID	A0341421
Gender	M

Results:

Amino Acids

Parameter	Value	Unit	Reference
Phenylalanine (Phe)	39.6	µmol/L	< 150.0
Phenylalanine / Tyrosine ratio (Phe/Tyr)	0.69	µmol/L	< 2.20
Tyrosine (Tyr)	57.3	µmol/L	< 200.0
Leucine (Leu)	115.4	µmol/L	< 270.0
Valine (Val)	60.8	µmol/L	< 200.0
Methionine (MET)	23.3	µmol/L	< 78.0
Methionine / Phenylalanine (Met/Phe)	0.59	µmol/L	< 1.60
Citrulline (Cit)	14.5	µmol/L	< 50.0
Ornithine (Orn)	85.1	µmol/L	< 250.0
Ornithine / Citrulline ratio (Orn/Cit)	5.87	µmol/L	1.50 - 20.00
Proline (Pro)	88.4	µmol/L	< 350.0
Alanine (Ala)	122.4	µmol/L	< 750.0
Arginine (Arg)	9.3	µmol/L	< 100.0
Aspartic acid (Asp)	47.2	µmol/L	< 100.0
Glutamic acid (Glu)	244.5	µmol/L	< 600.0
Glycamine (Gly)	132.7	µmol/L	< 700.0

Acylcarnitines

Free carnitine (C0)	33.07	µmol/L	6.00 - 100.00
acetylcarnitine (C2)	16.05	µmol/L	1.34 - 48.81
propionylcarnitine (C3)	1.46	µmol/L	0.13 - 6.60
butyryl-/isobutyrylcarnitine (C4)	0.11	µmol/L	0.03 - 0.90
isovaleryl-/2-methylbutyrylcarnitine(C5)	0.14	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
glutarylacetyl carnitine (C5DC)	0.04	µmol/L	< 0.30
hexanoylcarnitine (C6)	0.06	µmol/L	0.01 - 0.13
octanoylcarnitine (C8)	0.05	µmol/L	0.01 - 0.30
decanoylcarnitine (C10)	0.05	µmol/L	0.01 - 0.36
decenoylcarnitine (C10:1)	0.09	µmol/L	< 0.30
decadienoylcarnitine (C10:2)	0.10	µmol/L	< 0.10
dodecanoylcarnitine (C12)	0.08	µmol/L	0.10 - 0.60
myristoylcarnitine (C14)	0.12	µmol/L	0.01 - 0.57
tetradecenoylcarnitine (C14:1)	0.10	µmol/L	0.10 - 0.38
palmitoylcarnitine (C16)	0.95	µmol/L	0.62 - 7.81
3-hydroxypalmitoylcarnitine (C16OH)	0.03	µmol/L	< 0.10
stearoylcarnitine (C18)	0.58	µmol/L	0.30 - 2.40
oleylcarnitine (C18:1)	2.75	µmol/L	0.06 - 3.86
3-hydroxystearoylcarnitine (C18OH)	0.01	µmol/L	< 0.09
malonylcarnitine (C3DC)	0.07	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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