

NEWBORN SCREENING REPORT

701/328-4534

Patient			Birth Date and Gender Client Reference		Accession #	
LAST003, FIRST003			05-19 09:47 51	8088765	32002	
#34			ıle			
1234 22ND ST			ed Re	ceived	Project	
ANYTOWN, ND 58999			05-20 10:15 20	24-05-21 02:00		
					Ordering Health Care Provider	
					DOE, JANE	
6	ANYT	OWN HOSPITAL	L		Primary Care Provider	
T T	SEND	-OUT LAB		DOE, JOHN		
Report	_	MEDICAL ST		Sample Type Blood spot specimen		
Œ						
	ANYI	OWN, ND 58999	Sample Note(s)			
Screen	Birth Order	IA Barcode Number	Transfusion Interference	Weight at Collection	Guardian	
Initial		IA2390786	No	2263 grams	MOMLAST003, MOMFIRST003	

RESULTS OF ANALYSIS - FINAL REPORT

TEST	RESULT	ANALYSIS NOTE(S)
Congenital Adrenal Hyperplasia, Immunoassay		
Congenital adrenal hyperplasia interpretation	Within Normal Limits	
Congenital Hypothyroidism, Immunoassay		
Congenital hypothyroidism interpretation	Within Normal Limits	
Biotinidase Deficiency, Immunoassay		
Biotinidase deficiency interpretation	Within Normal Limits	
Galactosemia, Enzymatic Assay		
Galactosemia interpretation	Within Normal Limits	
Hemoglobinopathies, Various Methods		1
Hemoglobin disorders interpretation	Within Normal Limits	
Cystic Fibrosis, Various Methods		2
Cystic fibrosis interpretation	Within Normal Limits	
Expanded Screening Disorders, Tandem Mass Spectrometry		3
Fatty acid oxidation defects interpretation	Within Normal Limits	
Organic acidemias interpretation	Within Normal Limits	
Amino acidemias interpretation	Within Normal Limits	
Lysosomal Storage Disorders, Tandem Mass Spectrometry		4
Pompe disease interpretation	Within Normal Limits	
MPS1 disease interpretation	Within Normal Limits	
Severe Combined Immunodeficiency, Real-Time PCR		5
SCID interpretation	Within Normal Limits	
Spinal Muscular Atrophy, Real-Time PCR		6
SMA interpretation	Within Normal Limits	

SAMPLE AND ANALYSIS NOTES

- 1. Core conditions screened: Sickle cell disease, Hemoglobin S/C disease, Hemoglobin S beta-thalassemia
- 2. Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) gene variant testing was NOT performed on this sample because the Immunoreactive Trypsinogen (IRT) value was in the normal range.
- 3. Core conditions screened: Fatty acid oxidation defects: Carnitine uptake defect (Carnitine transport defect), Long-chain 3-hydroxy acyl-CoA dehydrogenase deficiency, Medium chain acyl-CoA dehydrogenase deficiency, Trifunctional protein deficiency, Very long-chain acyl-CoA dehydrogenase deficiency; Organic acidemias: Glutaric acidemia type I, 3-Hydroxy 3-methylglutaric acidemia, Isovaleric acidemia, 3-Methylcrotonyl-CoA carboxylase deficiency, Methylmalonic acidemia

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(methylmalonyl-CoA mutase, cobalamin disorders, vitamin B12 disorders), Beta-Ketothiolase deficiency, Propionic acidemia, Holocarboxylase synthetase deficiency; Amino acidemias: Argininosuccinic aciduria, Citrullinemia type 1, Homocystinuria, Maple Syrup Urine Disease, Classic Phenylketonuria, Tyrosinemia type I. The performance characteristics of this test were determined by the State Hygienic Laboratory. It has not been cleared or approved by the U.S. Food and Drug Administration.

- 4. Core conditions screened: Lysosomal Storage Disorders: Pompe, MPS1. A Presumptive Positive interpretation for Pompe or MPS1 will automatically reflex to second tier testing if a suitable sample is still available at SHL. A Borderline interpretation for Pompe will automatically reflex to second tier testing if a suitable sample is still available at SHL. If not, program staff will contact with recommendations for second tier testing. A second tier test interpretation will take precedence over the screening interpretation. The performance characteristics of this test were determined by the State Hygienic Laboratory. It has not been cleared or approved by the U.S. Food and Drug Administration.
- 5. The performance characteristics of this test were determined by the State Hygienic Laboratory. It has not been cleared or approved by the U.S. Food and Drug Administration.
- 6. Spinal Muscular Atrophy (SMA) screening uses a deletion in exon 7 of the survival motor neuron 1 (SMN1) gene to assess risk. 95% of SMA cases are caused by deletion of SMN1 exon 7. Thus, the screening assay may miss up to 5% of SMA cases that are not caused by SMN1 exon 7 deletion.

ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	SITE	RELEASED
1. Congenital Adrenal Hyperplasia, Immunoassay	2024-05-21 05:57 MBH	10320	2024-05-29 15:38 DU
2. Congenital Hypothyroidism, Immunoassay	2024-05-21 08:18 MBH	10320	2024-05-29 15:38 DU
3. Biotinidase Deficiency, Immunoassay	2024-05-21 05:14 MBH	10320	2024-05-29 15:38 DU
4. Galactosemia, Enzymatic Assay	2024-05-21 03:16 MBH	10320	2024-05-29 15:38 DU
5. Hemoglobinopathies, Various Methods	2024-05-21 11:43 MBH	10320	2024-05-29 15:38 DU
6. Cystic Fibrosis, Various Methods	2024-05-21 12:17 MBH	10320	2024-05-29 15:38 DU
7. Expanded Screening Disorders, Tandem Mass Spectrometry	2024-05-21 12:17 MBH	10320	2024-05-29 15:38 DU
8. Lysosomal Storage Disorders, Tandem Mass Spectrometry	2024-05-21 15:23 MBH	10320	2024-05-29 15:38 DU
9. Severe Combined Immunodeficiency, Real-Time PCR	2024-05-21 14:10 MBH	10320	2024-05-29 15:38 DU
10. Spinal Muscular Atrophy, Real-Time PCR	2024-05-21 14:25 MBH	10320	2024-05-29 15:38 DU

SITE(S) PERFORMING TESTING

10320 STATE HYGIENIC LABORATORY ANKENY, IOWA LABORATORIES COMPLEX, 2220 S ANKENY BLVD, ANKENY, IA 50023; Phone 515/725-1630; Fax 515/725-1650; Michael A. Pentella, Ph.D., D(ABMM), Director; CLIA Certificate: 16D0709302

For questions about resubmission, results, referrals, and newborn screening procedures, contact the North Dakota Department of Health and Human Services at 701/328-4534. This is a screening test and not indicated for stand-alone purposes; results should be used in conjunction with other available laboratory and clinical information. A false negative or a false positive result must always be considered when screening; therefore, clinical findings and status should be considered whenever interpreting laboratory results. Newborn reference values may not be applicable to older infants, thus screening results should be interpreted with caution in such cases. Information on the conditions screened is available at https://www.hhs.nd.gov/cfs/newborn-screening/newborn-blood-spot-screening/information-parents/disorders. The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory.

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