

Lipids	in Serum Pilot	Scheme Code: LIS			
Aim:	Comparison of assays outcomes for various lipids in serum relevant to the diagnosis of inborn errors of metabolism, in respect to median and target values.				
Status:	New pilot scheme starting in 2024				
General					
Eligibility Requirements:		Participants must produce their own results and cannot send samples to a sub- contracted (or cluster) laboratory The number of participants for 2024 is limited			
	Use of cluster labs allowed?	No			
No of organising centres:		One			
Geographic area:		Worldwide			
Price:		0 Euro / 0 GBP / 0 USD.			
Scientific Advisor:		Dr Susanna Goorden, admin@erndim.org			
Scheme Organiser:		MCA Laboratory, Netherlands			
EQA Samples					
Sample volume:		1ml			
Sample type:		Matrix of human serum spiked with commercially available analytes			
	Analytes:	See Appendix 2 (page 3) for details			
Scheme I	Design				
	Sample design/selection:	Scientific Advisor and deputy Scientific Advisor			
Sample manufacture subcontracted to:		MCA Laboratory			
Sample aliquoting subcontracted to:		MCA Laboratory			
Sample Dispatch subcontracted to:		MCA Laboratory, one dispatch per year (Feb 2024)			
Country samples will be dispatched from:		Netherlands			
No of samples/year:		8			
Results S	ubmission				
	No of submission deadlines/year:	8			
	Submission of results:	Online (ERNDIM-MCA website)			
	Results to be submitted:	Quantitative (all components) & qualitative (only N-Palmitoyl-O-Phosphocholineserine [PPCS]) - participants will be asked to report if PPCS values are increased according to local reference values.			
Scoring of	of results:				
	Analysis:	Yes			
	Interpretation:	Yes			
Reports:					
	Interim Reports	Published 14 days after each submission deadline			
	Individual Lab Annual Reports	Published 14 days after the last submission deadline			
Scheme Annual Report (AR)		Published in Jan-Feb of the following year			

Appendix 1: Provisional 2024 Calendar

Vaar	Month	LIC Dilet	
Year	Month	LIS Pilot	
-1	Sep	R	
	Oct	R	
	Nov	R	
	Dec		
	Jan		
	Feb	D	
	Mar	S	
	Apr	S	
	May	S	
Scheme	Jun	S	
Year	Jul	S	
	Aug	S	
	Sep	S	
	Oct	S	
	Nov	ILAR	
	Dec		
+1	Jan	AR	

R = Registration open

D = Sample Dispatch S = Submission Deadline

ILAR = Individual Laboratory Annual Report
AR = Annual Report published



Appendix 2: Analytes included in the 2024 pilot scheme

Metabolite	Disorder	Group of disorders	SAS/new
	Lysosphingolipids		
Lyso-sphingomyelin (Lyso-SM)	Niemann Pick Disease type A/B (NPA/B)	Sphingolipidoses	SAS
Lyso-globotriaosylceramide (Lyso-Gb3)	Fabry Disease	Sphingolipidoses	SAS
Glucosylsphingosine	Gaucher Disease	Sphingolipidoses	SAS
N-palmitoyl-O- phosphocholineserine (PPCS); (previously known as Lysosphingomyelin-509)	Niemann Pick Disease type C (NPC) and Niemann Pick Disease type A/B (NPA/B)	Sphingolipidoses	New
Lyso-monosialoganglioside 1 (Lyso-GM1)	GM1 gangliosidosis	Sphingolipidoses	New
Lyso-monosialoganglioside 2 (Lyso-GM2)	GM2 gangliosidoses (Tay Sachs and Sandhoff disease)	Sphingolipidoses	New
	Oxysterols		
Cholestane-3β,5α,6β-triol	Niemann Pick Disease type C (NPC)	Sphingolipidoses	SAS
7-ketocholesterol (7-KC)	Niemann Pick Disease type C (NPC)	Sphingolipidoses	SAS
	Lysophospatidylcholines	•	•
C26:0-lysophospatidylcholine (C26:0-lysoPC)	X-linked adrenoleukodystrophy (X-ALD), D-bifunctional protein (DBP) deficiency, peroxisomal acyl-CoA type 1 (ACOX1) deficiency and Zellweger Spectrum Disorders (ZSD)	Peroxisomal disorders	SAS (pilot in 2023)
	Sterols		
Cholestanol	Cerebrotendinous Xanthomatotic (CTX)	Sterol biogenesis disorders	SAS
7-dehydrocholesterol (7-DHC)	Smith Lemli Opitz Syndrome (SLO)	Sterol biogenesis disorders	SAS
Desmosterol	Desmosterolosis	Sterol biogenesis disorders	New
Sitosterol	Sitosterolemia	Sterol transport disorders	New

END

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