

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 started 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 2025 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 [	Design				
	Sample design/selection:	Scientific Advisor and deputy Scientific Advisor			
Sample manufacture subcontracted to:		MCA Laboratory			
Sample aliquoting subcontracted to:		MCA Laboratory			
Sa	ample Dispatch subcontracted to:	MCA Laboratory, one dispatch per year (Feb 2025)			
Country samples will be dispatched from:		Netherlands			
	No of samples/year:	8			
Results Submission					
1	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 o	f 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			
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Appendix 1: Provisional 2025 Calendar

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 2025 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				
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				
Lathosterol	Lathosterolosis	Sterol biogenesis disorders	New				
Sitosterol	Sitosterolemia	Sterol transport disorders	New				
Ubiquinones							
Coenzyme Q10 (Ubiquinone)	Primary and secondary Coenzyme Q10 deficiencies	Mitochondrial disorders	SAS				

**END** 

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