

## NEW TEST

[Click for Pricing](#)

### Plasmalogens (Red Blood Cells)

3019936, PLSMGN RBC

#### Specimen Requirements:

##### Patient Preparation:

**Collect:** Green (sodium heparin or lithium heparin), lavender (K2EDTA), or yellow (ACD solution A)

**Specimen Preparation:** DO NOT FREEZE. Transport 6 mL whole blood. (Min: 2 mL)

**Transport Temperature:** Refrigerated

**Unacceptable Conditions:** Gross hemolysis, frozen whole blood

##### Remarks:

Patient age is required on the test request form. Include information regarding treatment, family history, and tentative diagnosis

##### Stability:

Ambient: 3 days; Refrigerated: 7 days; Frozen: Unacceptable

##### Methodology:

Quantitative Liquid Chromatography-Tandem Mass Spectrometry

##### Note:

**CPT Codes:** 82542

**New York DOH Approval Status:** Specimens from New York clients will be sent out to a New York DOH approved laboratory, if possible.

#### Interpretive Data:

This test measures eighteen individual phosphoethanolamine plasmalogen species by LC-MS/MS. Total values calculated by adding each of the six 16:0, 18:0 or 18:1 species and total plasmalogens, obtained by adding all 18 species, are reported.

#### Reference Interval:

Test Number	Components	Reference Interval	
	16:0(plasm)-PE Total		
		Age	Reference Intervals
		0-3 months	89.09-165.13 nmol/mL
		4 months-18 years	104.89-205.55 nmol/mL
		Greater than 18 years	89.67-189.15 nmol/mL
	18:0(plasm)-PE Total		
		Age	Reference Intervals
		0-2 months	124.85-251.80 nmol/mL
		Greater than 2 months	170.31-282.19 nmol/mL
	18:1(plasm)-PE Total		
		Age	Reference Intervals
		0-2 months	45.38-111.35 nmol/mL
		3 months-2 years	51.22-165.89 nmol/mL
		Greater than 2 years	50.70-97.43 nmol/mL
	NC_(plasm)20:4-PE Total		
		Age	Reference Intervals
		0-2 months	116.79-225.18 nmol/mL
		Greater than 2 months	148.52-272.56 nmol/mL
	NC_(plasm)22:6-PE Total		
		Age	Reference Intervals
		0-2 months	45.36-115.58 nmol/mL
		3 months-2 years	39.66-153.20 nmol/mL
		Greater than 2 years	32.85-107.65 nmol/mL
	NC_16:0(plasm)-18:1-PE		

		Age	Reference Intervals
		0-2 months	10.69-26.60 nmol/mL
		3 months-18 years	15.06-32.06 nmol/mL
		Greater than 18 years	10.98-27.72 nmol/mL
NC_16:0(plasm)-18:2-PE			
		Age	Reference Intervals
		0-17 days	less than or equal to 2.65 nmol/mL
		18 days-3 months	1.57-4.44 nmol/mL
		4 months-18 years	3.30-9.93 nmol/mL
		Greater than 18 years	2.31-9.06 nmol/mL
NC_16:0(plasm)-20:4-PE			
		Age	Reference Intervals
		0-2 months	33.11-71.59 nmol/mL
		3 months-18 years	40.49-95.50 nmol/mL
		Greater than 18 years	35.37-81.74 nmol/mL
NC_16:0(plasm)-20:5-PE			
		Age	Reference Intervals
		0-2 months	less than or equal to 2.30 nmol/mL
		Greater than 2 months	1.18-9.70 nmol/mL
NC_16:0(plasm)-22:4-PE			
		Age	Reference Intervals
		0-2 years	15.18-45.01 nmol/mL
		Greater than 2 years	24.05-55.85 nmol/mL
NC_16:0(plasm)-22:6-PE			
		Age	Reference Intervals
		0-18 months	12.71-38.30 nmol/mL
		Greater than 18 months	8.32-27.62 nmol/mL

NC_18:0(plasm)-18:1-PE			
		Age	Reference Intervals
		0-46 days	7.40-22.55 nmol/mL
		Greater than 46 days	10.07-23.46 nmol/mL
NC_18:0(plasm)-18:2-PE			
		Age	Reference Intervals
		0-49 days	0.57-2.09 nmol/mL
		50 days-1 year	1.11-3.16 nmol/mL
		2 years-7 years	1.82-4.71 nmol/mL
		8 years-22 years	2.06-4.64 nmol/mL
		Greater than 23 years	1.21-4.58 nmol/mL
NC_18:0(plasm)-20:4-PE			
		Age	Reference Intervals
		0-2 months	56.14-125.60 nmol/mL
		3 months-2 years	68.89-162.78 nmol/mL
		3 years-13 years	94.33-153.88 nmol/mL
		14 years-18 years	85.21-140.94 nmol/mL
		Greater than 18 years	76.87-141.38 nmol/mL
NC_18:0(plasm)-20:5-PE		less than or equal to 5.42 nmol/mL	
NC_18:0(plasm)-22:4-PE			
		Age	Reference Intervals
		0-3 months	25.42-59.80 nmol/mL
		Greater than 3 months	29.53-74.90 nmol/mL
NC_18:0(plasm)-22:6-PE			
		Age	Reference Intervals
		0-2 months	21.81-57.87 nmol/mL
		3 months-18 months	23.94-78.09 nmol/mL
		Greater than 18	17.75-60.30

		months	nmol/mL
	NC_18:1(plasm)-18:1-PE		
		Age	Reference Intervals
		0-2 months	4.19-12.62 nmol/mL
		3 months-2 years	5.24-17.10 nmol/mL
		Greater than 2 years	5.35-12.60 nmol/mL
	NC_18:1(plasm)-18:2-PE		
		Age	Reference Intervals
		0-2 months	less than or equal to 2.92 nmol/mL
		3 months-5 years	1.33-4.08 nmol/mL
		Greater than 5 years	0.91-3.55 nmol/mL
	NC_18:1(plasm)-20:4-PE		
		Age	Reference Intervals
		0-2 months	18.68-57.57 nmol/mL
		3 months-2 years	23.31-76.57 nmol/mL
		Greater than 2 years	23.10-47.35 nmol/mL
	NC_18:1(plasm)-20:5-PE	less than or equal to 4.32 nmol/mL	
	NC_18:1(plasm)-22:4-PE		
		Age	Reference Intervals
		0-2 months	6.09-16.99 nmol/mL
		3 months-1 year	8.32-28.30 nmol/mL
		Greater than 1 year	7.16-17.33 nmol/mL
	NC_18:1(plasm)-22:6-PE		

		Age	Reference Intervals
		0-2 months	7.30-26.99 nmol/mL
		3 months-2 years	5.55-40.29 nmol/mL
		3 years-18 years	5.32-19.07 nmol/mL
		Greater than 18 years	5.15-24.07 nmol/mL
Total Plasmalogen PE (RBC)			
		Age	Reference Intervals
		0-2 months	275.36-484.68 nmol/mL
		Greater than 2 months	338.70-575.65 nmol/mL

**HOTLINE NOTE: Refer to the Hotline Test Mix for interface build information.**