

QUALITY CONTROL

Control sera are recommended to monitor the performance of assay procedures.

If control values are found outside the defined range, check the instrument, reagents and technique for problems.

Each laboratory should establish its own Quality Control scheme and corrective actions if controls do not meet the acceptable tolerances.

REFERENCE VALUES¹

≤ 38 U/L (U/L methylresorufin at 37° C).

These values are for orientation purpose; each laboratory should establish its own reference range.

PERFORMANCE CHARACTERISTICS

Measuring range: From *detection limit* of 5 U/L to *linearity limit* of 250 U/L.

Precision:

Mean (U/L)	Intra-assay (n=20)		Inter-assay (n=20)	
	119	215	119	215
SD	4.13	5.97	5.43	10.7
CV (%)	3.34	2.78	4.54	5.02

Accuracy: Results obtained using CHRONOLAB reagents (y) did not show systematic differences when compared with other commercial reagents (x).

The results obtained using 100 samples were the following:

Correlation coefficient (r): 0.997.

Regression equation: $y = 0.50054x + 3.9443$.

The results of the performance characteristics depend on the analyzer used.

INTERFERENCES

Triglycerides at 300 mg/dL interfere on determination reducing the activity of enzyme of 6%. Hemoglobin concentration lower than 150 mg/dL and Bilirubin lower than 20 mg/dL do not interfere. A list of drugs and other interfering substances with lipase determination has been reported by Young et. al^{2,3}.

BIBLIOGRAPHY

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