

AR226-1726

Determination of Possible Interference of Perfluorooctane Sulfonic Acid Potassium Salt with Rat Cholesterol

Date: 8/17/99

Study: 6329 263

	Serum		Vehicle		
	Blank	0 ug/mL	Blank	0 ug/mL	
			1.08 mg /mL	3.23 mg /mL	6.46 mg /mL
mg/dL #1	68	66	66	66	67
mg/dL #2	66	66	65	65	65
mg/dL #3	65	65	66	66	65
mean	66.33333	65.66667	65.66667	65.33333	65.66667
s.d.	1.527525	0.57735	0.57735	0.57735	1.154701

Method Principle (Trinder reaction)

Cholesterol esters present in serum or plasma are hydrolyzed qualitatively in to free cholesterol and fatty acids by microbial cholesterol esterase. In the presence of oxygen, free cholesterol is oxidized by cholesterol oxidase to cholest-4-en-3-one and peroxide which reacts in the presence of peroxidase with phenol and 4-aminophenazone to form an o-quinone dye. The intensity of the color formed is proportional to the cholesterol concentration and can be measured photometrically at 505 nm.

Note: mg/dL (mg/100mL) can be converted to mmol/L by taking it times 0.0259

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