

Andrew Seacat

04/28/04 01:44 PM

To: Melinda M. Mitchell/US-Corporate/3M/US@3M-Corporate
Cheri Kedrowski/US-Corporate/3M/US@3M-Corporate
cc: James Zappia/US-Corporate/3M/US@3M-Corporate
John L. Butenhoff/US-Corporate/3M/US@3M-Corporate
Subject: Covance 6329 263 (T-6295.20)

All,

I found the excel file containing the one-page letter report for this Covance study on the in-vitro assay for PFOS interference with the cholesterol assay. The results of the study showed that PFOS does not interfere with the assay for serum cholesterol concentrations used by Covance.

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



tcho6329 PFOS interference w CHOL assa

Regards,
Andrew

Andrew M. Seacat Ph.D., DABT
3M Medical Department
3M Center 220-2E-02
Saint Paul, MN 55144
Tel: (651) 575-3161
Fax: (651) 733-1773

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

Date: 8/17/99

Study: 6329 263

	Serum Blank 0 ug/mL	Vehicle Blank 0 ug/mL	1.08 mg /mL	3.23 mg /mL	6.46 mg /mL
mg/dL #1	68	66	66	65	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 into 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