

CENTRAL ANALYTICAL LABORATORY

Report No. 6962

Date August 1, 1978

Subject: FC in Blood

Requestor: D.E. Roach Dept. Name Medical Proj. No. 9172110004

Request No. A69308 Dated 7/11/78

Report:

Approximately 2 years ago (September, 1976, Analytical Request A62912) the serum from 10 employees at the Decatur plant was analyzed for organic and inorganic fluoride content. Recently (July, 1978) 5 of the same employees were re-sampled and analyzed.

Sample	1976		1978	
	RF (ppm)	F <sup>-</sup> (ppm) <sup>①</sup>	RF (ppm) <sup>②</sup>	F <sup>-</sup> (ppm) <sup>③</sup>
20	1.12	0.05	1.2	0.04
21	0.87	0.13	0.9	0.06
22	9.05	0.05	8.8	0.05
27	0.62	0.14	0.7	0.02
29	1.18	0.16	1.3	0.02

- ① on serum solids
- ② average of 2 determinations. Expect results to be ±5 - 10%.
- ③ on serum itself

The data between 1976 and 1978 is in such good agreement it is surprising that the samples were taken 2 years apart. As one looks at the data, it is apparent that those individuals that were high 2 years ago, continue to be high and those low, continue to be low. This could be interpreted in several ways. Perhaps different people have different equilibrium values and their body rapidly excretes material above this level or once exposed to a single or several doses (and none of the 5 employees were re-exposed in the intervening 2 years) the FC compounds tightly bind to blood constituents and are slowly, if at all, eliminated.

c:R.A. Prokop 236-3B  
 F.A. Ubel 220-2E

*John Belisle*  
 John Belisle

**Exhibit**  
**1180**  
 State of Minnesota v. 3M Co.,  
 Court File No. 27-CV-10-28862