

Material: B-D Vacutainers (20 ml. size)
Source: Becton Dickinson Company, Rutherford, New Jersey
Required: Lead determination to check cleaning procedures

A series of three tests were run similar to C in our report of 8-20-45.

Series A consisted of tubes chosen at random from 200 cleaned by the old method.

Series B consisted of 10 tubes chosen at random from 34 specially prepared and individually wrapped tubes.

Series C consisted of the 10 tubes of A above cleaned by us according to the procedure outlined in the report of 8-20-45.

<u>Micrograms Pb</u>		
<u>A (Regular)</u>	<u>B (Special)</u>	<u>C (Kettering)</u>
0.25	0.20	0.15
0.20	0.30	0.15
0.10	0.25	Nil
0.20	0.40	0.15
0.35	0.40	0.60
0.20	0.20	0.15
0.25	0.20	0.10
0.20	0.40	0.20
0.25	0.25	0.10
0.25	0.10	Nil
Average 0.225	0.270	0.160

Remarks

The tubes (A and B series) show some improvement over the first batch tested 8-20-45. The special cleaning procedure as carried out by the Becton-Dickinson Company does not show any improvement over their regular method. The C series shows that the contamination can be reduced by proper cleaning. An aberrant (0.60) result raised the average to 0.16 microgram while an 0.10 microgram average was obtained when this aberrant result was discarded.

In connection with the shipment of 200 tubes, these were so poorly packed that 52 were found broken when the package was opened.

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Recommendations

1. It is recommended that for our own use the tubes and stoppers be purchased as separate items and that they be cleaned and prepared (evacuated) in our laboratory.
2. A Vacutainer capable of holding 40 ml. of blood would be useful for our plasma work.
3. It is further recommended that the B-D people do more work in perfecting their procedure for cleaning the Vacutainer.

Reported: September 17, 1945

J. Cholak