

Adulteration of twenty-seven (27) samples consists in notable departure from legal standards in the matter of fat content, non-fat solids, and other data. In nine (9) of these cases, the milk fat, while distinctly less than the legal standard requires (3.25 per cent) is not less than we know to be contained in the milk of certain individual cows, under exceptional conditions, such as improper feeding. The remaining samples (eighteen in number) indicate such marked deviation from standard requirements, as to admit of no recommendation for leniency.

These are the following:

Sample Number.	Fat.	Non-fat Solids.
3846.....	2.27	8.95
3852.....	2.47	9.02
3853.....	2.08	9.15
3947.....	1.29	8.82
3950.....	1.32	8.89
3980.....	2.48	9.98
66550.....	2.44	9.26
66558.....	1.54	9.13
67039.....	2.59	9.03
67040.....	2.46	9.23
67042.....	2.30	9.46
67043.....	2.59	9.42
67044.....	2.61	9.27
67180.....	0.74	8.56
66702.....	2.48	9.02
68476.....	2.55	9.01
69707.....	2.67	7.82
69711.....	2.41	7.57

In all but the last two cases, the results of analysis point to removal of milk fat (cream) only; in the last two cases, the abnormally low non-fat solids, indicate addition of water.

I beg to recommend publication of this report as Bulletin No. 318.

I have the honour to be, Sir,

Your obedient servant,

A. McGILL,

Chief Analyst.

CORRECTION.

BULLETIN No. 301.—WHITE PAINT.

In this bulletin under "remarks and opinion of the Chief Analyst" the word barytes appears. Instead of this word, the term barium sulphate should be used. Barium Sulphate is used as a paint material either as the ground mineral heavy spar or barytes, or as a product of the interaction of barium sulphide and zinc sulphate, which results in the formation of lithopone, a pigment consisting essentially of 30 per cent. of zinc sulphide and of 70 per cent. barium sulphate. This product is commercially known as lithopone and is a greatly more desirable paint material than the pulverized mineral above referred to.

It has been ascertained that it is in this last form (lithopone) that barium sulphate is present in most of the samples reported in Bulletin No. 301.

Chief Analyst.