



5.1 For analysis procedure and calculation, see "Direct Aspiration", part 9.1 of the Atomic Absorption Methods section of this manual.

## 6.0 Interferences

6.1 Sodium and silicon at concentrations in excess of 1000 mg/L have been found to severely depress the beryllium absorbance.

6.2 Bicarbonate ion is reported to interfere; however, its effect is eliminated when samples are acidified to a pH of 1.5.

6.3 Aluminum at concentrations of 500  $\mu\text{g/L}$  is reported to depress the sensitivity of beryllium [Spectrochim Acta 22,1325 (1966)].

## 7.0 Notes

7.1 Data to be entered into STORET must be reported as  $\mu\text{g/L}$ .

7.2 The "aluminum colorimetric method" may also be used (Standard Methods, 14th Edition, p 177). The minimum detectable concentration by this method is 5  $\mu\text{g/L}$ .

7.3 For concentrations of beryllium below 0.02 mg/L, the furnace procedure (Method 210.2) is recommended.

## 8.0 Precision and Accuracy

8.1 In a single laboratory (EMSL), using a mixed industrial-domestic waste effluent at concentrations of 0.01, 0.05 and 0.25 mg Be/L, the standard deviations were  $\pm 0.001$ ,  $\pm 0.001$  and  $\pm 0.002$ , respectively. Recoveries at these levels were 100%, 98% and 97%, respectively.