Fat 0.4 g

Carbohydrate 75 g

Protein 2.5 g

Vitamin C 10 mg

Calcium 70 mg

Magnesium 60 mg

Fat 0.4 g

Carbohydrate 65 g

Protein 2 g

Vitamin C 15 mg

Calcium 60 mg

Magnesium 35 mg

**Protein**

Weight of the sample= 2.0 g

Volume of HCl= 50 ml, 0.2N

Volume of 0.2N NaOH consumed for titration = 30 ml

Volume of 0.2N HCl consumed by produced NH3 from the sample= (50-30) ml = 20 ml

So, O.2 N HCl= 0.2 N NH3 and MW of NH3= (14 + 1× 3) =17

1000 ml of 1N NH3 = 17 g NH3 = 14 g N (Nitrogen)

1000 ml of 0.2N NH3 = 3.4 g NH3 = 2.8 g N (Nitrogen)

1000 ml 0.2 N NH3 solution contains 2.8 g N

1 ml     = 2.8

1000 g

20 ml     = 2.820

1000 g =  g

% of N in the sample = (0.01136 × 100)/2.0= 0.568 %

[ N-conversion factor = 4.4] Crude protein content in the sample = % Nitrogen × 4.4

=0.568% × 4.4

=2.5%