PENGARUH ASAM TARTRAT TERHADAP KESTABILAN VITAMIN C YANG MENGANDUNG ION TEMBAGA (II)

Abstrak:
Vitamine C solution is very unstable to oxygen, especially in the present of copper (II) ion. Catalytic effect of copper (II) ion can be inhibited by tartaric acid. The effect of tartaric acid on vitamine C stability that content copper (II) ion was carried out. A solution of 500 ppm vitamine C that contains 5 ppm copper (II) ion without addition of tartaric acid was used as a blank. Furthermore, a series of samples (i.e., vitamine C) were made by addition of tartaric acid with the ratios of 2.5 : 1; 5 : 1; 10 : 1 and 20 : 1. Then each sample was determined its percent recovery by using iodimetric method. Analysis results indicated that there are significant difference in term of percent recovery between sample with addition of tartaric acid and samples without addition of tartaric acid. Also it was found that percent recovery was increase when the ratio between vitamin C and tartaric acid increased. The highest of percent recover was achieved when the ratio between vitamin C and tartaric acid was 2.5 : 1.

Keyword:
vitamine C, inhibition, tartaric acid