

## **ABSTRACT**

### **LINEARITY TEST ACTIVITY DETERMINATION OF ANTIOXIDANTS USING DPPH METHOD WITH AQUADEST AS SAMPLE SOLVENT**

**ALRIMA RIA INSANI**

Antioxidants are a compound that can inhibit oxidation reaction by binding the free radicals and highly reactive molecules. Ascorbic acid is an important food of antioxidant. The aim of this research is to find activity test validation method on ascorbic acid powder that dissolved with aquadest as a solvent with DPPH method towards linearity test requirements. This research started with make 40 ppm DPPH solution and 100 ppm ascorbic acid solution. From that 100 ppm solution be made 1,2,3,4,5 ppm solutions and measured the absorbance at a predetermined maximum wavelength. Based on the result of this research which has been done for 5 times and the results for (r) correlation coefficient value for replication 1 is 0,9787; replication 2 is 0,9791; replication 3 is 0,9892; replication 4 is 0,9900 and the result for replication 5 is 0,975066. From that results can be concluded that this research meets the linearity requirements since the (r) correlation coefficient values close to 1. For the future can be useful to do further research with using another solvents & methods.

**Keywords:** antioxidants , ascorbic acid , linearity test.