



## **CARISSA CARANDAS FRUIT EXTRACT AS A NATURAL FABRIC DYE**

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**ABSTRACT** - This study aimed to produce a natural fabric dye that can create an intermediate color from cranberry (*Carissa carandas*) extract. The natural dye was generated by mixing water and fruits, then heated to simmer. To be able to test for the type of fiber which best absorbs the dye, 3 different fabrics were used – Swiss cotton, greige, and silk cocoon fabric. The silk cocoon fabric, found to be most viable for natural dyeing, was used in testing for the effect of the fruit's ripeness to the color it produces. Three different sets of the fruit were used – fully-ripe violet cranberries, ripe red-violet ones, and slightly-ripe red cranberries. It was found out that the produced colors ranged from red-violet to blue-violet. The fabric dyed using the ripe cranberries produced the most highly-intense color among the three (3) sets of tests. It can be concluded that the extract was able to produce a natural fabric dye of intermediate colors. Moreover, the ripeness of the fruit affects the value and intensity of the fabric dye's color. The experiment may later on be improved and tested for the best number of hours it would take soaking the fabric to produce a darker color value.

*Keywords: Carissa carandas, cranberry, natural fabric dye, intermediate color*



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