

ABSTRACT

OPTIMIZATION OF THE USE OF NATURAL MARIGOLD FLOWER DYES (*TAGESTES ERECTA L.*) TO PRODUCE COLOR VARIATIONS ON TEXTILE SHEETS

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*Marigold flowers (*Tagetes erecta L.*) have great potential as natural textile dyes because of their carotenoid content that produces intense colors. Currently, its utilization is not optimal, limited to dyeing with Mordan Alum fixation to obtain the original color of Marigold flower dyes. This can be an opportunity to explore the development of fresh Marigold flower petal extraction methods for optimal dye formulations. The main focus is the exploration of Marigold flower petal extraction, exploring the color variations produced through the use of various types of mordants on fabrics with different fibers, and proving the results of dyes on large-sized fabrics. This study succeeded in developing a natural dye formula from fresh Marigold flower petal extraction, which was then applied to various types of fabric fibers with various mordants, and a catalog of color variations has been created that shows success in optimizing the use of Marigold flower petals as natural textile dyes.*

*Keywords: Color Variation Catalog, Marigold Flower Petal Extraction, Marigold Flowers (*Tagetes erecta L.*), Natural Textile Dyes.*