

ABSTRACT

This research aims to determine the effect of light color, seeding media, and the interaction of light with seeding media on tomato seed germination. This research was carried out in the mini laboratory of the seed research team, Kuta Blang Village, Banda Sakti, Lhoksemawe and the agroecotechnology laboratory of the faculty of agriculture, Reuleut village, North Aceh. This research uses a split plot design method which consists of two factors. The first factor namely the color of light (W) consists of four levels, while the second factor is media (M) which consists of three levels. The research results show that different light color treatments have a real influence on the viability and vigor of tomato seeds. The best light color is yellow light. While the seedling media treatment had a significant effect on benchmarks for seed germination and normal seedling dry weight. The best treatment was found in yellow light using napkin tissue as a seedling media. There is a real interaction between different treatments of light color and media type on all observation variables. The best treatment was found in yellow light using napkin tissue as seedling media.

Key words: Viability, vigor, tomato seed