

## Effect of Culture Media on Growth and Pigment Production by *Fusarium* sp.

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**Abstract** The present study aimed to obtain a suitable medium for the enhanced pigment production by *Fusarium* sp. The fungus were allowed to grow on five different solid media that are Potato Dextrose Agar (PDA), Czapek-Yeast Extract Agar (CYEA), Malt Extract Agar (MEA), Nutrient Agar (NA) and Rose Bengal Agar (RBA). Comparing all suitable media in terms of temperature, pH and time duration Czapek-Yeast Extract Agar (CYEA) and Malt Extract Agar (MEA) has been found to be suitable media. The data revealed that maximum radial growth and pigment production were observed on CYEA and MEA with a mean of  $79\pm 0.5$  and  $68\pm 0.5$  mm respectively and the best pigment production was analyzed on PDA and CYEA after 48 hours.

The optimum condition for growth were observed at temperature  $28\pm 2^\circ\text{C}$ , pH  $5.4\pm 2$  and the time duration 144 hours. The findings of this study showed that different culture media influenced the growth and pigmentation of *Fusarium* sp.