

## ABSTRACT

The utilization of technology in the field of education is highly necessary for improving quality, productivity, and the overall effectiveness and cost efficiency of education. One form of technology integration in education is through practical activities. To prevent misunderstandings in the steps of practical activities, the need for a guiding medium that is easily understood, accessed, and used by learners is crucial. This study aims to determine the effect of the duration of fungicide soaking on the level of contamination of pineapple plant explants (*Ananas comosus* (L.) Merr.) and to determine the validity level of a video-based pineapple plant (*Ananas comosus* (L.) Merr.) bud induction practicum guide as a learning media for biology technology innovation material in phase E. The research adopts a research and development (R&D) approach, and for the experimental phase, a Completely Randomized Design (CRD) is employed with six repetitions for soaking durations of 0 minute, 15 minutes, 30 minutes, 45 minutes, and 60 minutes. The results indicate that the duration of fungicide soaking does not significantly affect the contamination of pineapple explants (*Ananas comosus* (L.) Merr.), as evidenced by the hypothesis test value  $Asymp. Sig. of 0,358 > 0,050$ . Therefore, the null hypothesis ( $H_0$ ) is accepted, and the alternative hypothesis ( $H_1$ ) is rejected. The video-based practical guide, validated by subject matter experts, media experts, and language experts, achieved an overall average score of 90,76%, categorizing it as Highly Valid. Thus, the video-based practical guide is deemed suitable for use as a practical learning medium in schools.

**Keywords:** *Ananas comosus* (L.) Merr., Contamination, Learning Videos, Practicum Guide, Validity