

ABSTRACT

The national education system, as stipulated in Law No. 20 of 2003, represents a conscious and planned effort to develop the potential of students in shaping spiritual, religious strength, self-control, personality, intelligence, morals, and the skills needed for themselves, society, nation, and state. One of the efforts to enhance students' skills is through the utilization of learning media, such as Student Worksheets (LKPD). This study aims to determine the effect of kinetin on the induction of shoots in stem explants of Stevia plants (*Stevia rebaudiana* B.) and to ascertain the validity of the LKPD for shoot induction of Stevia plants (*Stevia rebaudiana* B.) material on biological technology innovation in phase E. The research method used for the LKPD validity test is the *Research and Development* (R&D) method, and for experimental research, a Completely Randomized Design (RAL) with five repetitions at 0 ppm kinetin, 1 ppm kinetin, 2 ppm kinetin, 3 ppm kinetin, and 4 ppm kinetin. The study results reveal that the effect of kinetin on shoot induction of Stevia plants (*Stevia rebaudiana* B.) showed a 100% success rate and did not have a significant effect, as indicated by the Asymp hypothesis test value Sig. 0.114 > 0.05. The LKPD media, validated by material experts, media experts, and language experts, achieved an overall average score of 95.8%, categorizing it as highly valid. Therefore, the LKPD media is deemed suitable for use as an additional learning resource for students in schools.

Keywords: Kinetin, Student Worksheet (LKPD), *Stevia rebaudiana* B., Validity