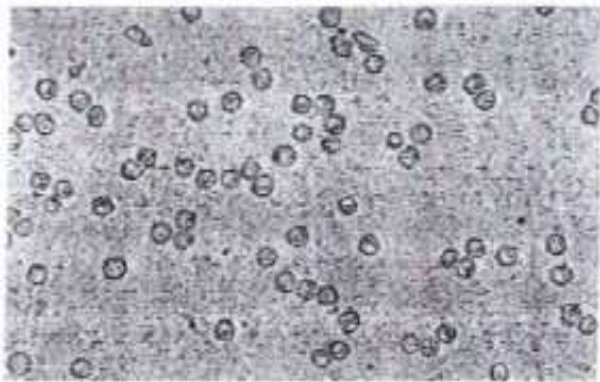
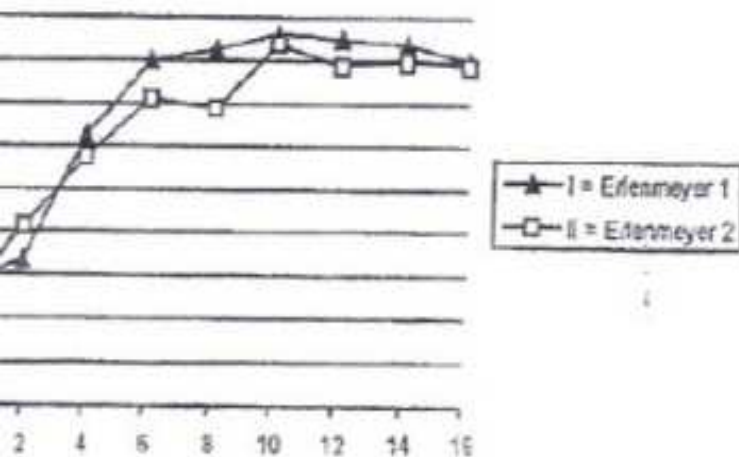


rs can consist of 10 cells or less for each group. From observation of cells, cells obtained almost the shape of form isodiametris. As it is known that on the first day of planting, almost all the cells are single. After five days of culture seemed that has a uniform cell density, so that made the transfer to the medium in a bigger place.



Mesophylls cells of leaf *C. asiatica* that had cultured for 30 days. 40x magnification 10.

etermine cell growth in growth medium, used in a microtubgan PCV or volume of cells collected, expressed in percentage. PCV count results in the medium of two samples which had been cultured from 0 days to 16 days are presented in Fig.4.



percentage of PCV on mesophyll cell growth of *C. asiatica*

on of the two samples were PCV increased the percentage of PCV began the second day after transfer to the previous medium. Increase percentage of PCV until day-to-10. This phase is marked by not changing the value of PCV, even tended to decrease.

Production Medium

Quantitative results in the production medium is presented in Fig.5. From the picture looks, between day

0 and day-to-3, see dashed line, this indicates independent culture since the first day was observed in other samples and its value is synchronized with the sample to be used for culturing. The results of the transfer of inoculum into the production medium showed cell growth. This is shown by the increase in PCV for each treatment.

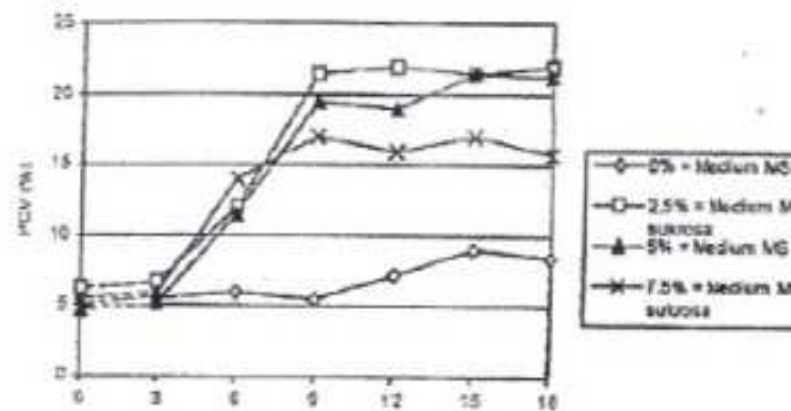


Fig.5 The percentage of PCV on mesophyll cell production of medium *C. asiatica*

In the medium is added sucrose (2.5%, 5% and 7.5%) the percentage of PCV is greater than the medium without sucrose. The addition of sucrose with a concentration of 2.5% produces PCV 22%, followed by a concentration of 5% with PCV 21.25% while the addition of 7.5% sucrose in the medium produces PCV of 15.75%. While the medium without sucrose produces PCV [11]. slow cell growth at low sugar concentration. Pa optimum concentration of sucrose in vitro culture is highly dependent plant species used for explant culture method.

4. Qualitative Analysis of Compound asiaticoside

Qualitative analysis results are shown in the picture. From the detection of compounds in standard solution, TECA asiaticoside obtained two spots with Rf 0.63 and Rf purplish blue 0.85 creamy. Allegedly purplish blue spots with Rf 0.63 is asiaticoside.