

## ABSTRAK

**Syamrotul Fuadah** : Pengembangan lembar Kerja berbasis Eksperimen pada pembuatan Serum Wajah Berbahan dasar Kefir Susu dan Ekstrak Buah Alpukat (*Persea americana*)

Penelitian ini bertujuan menganalisis hasil uji validasi lembar kerja dan mendeskripsikan tampilan lembar kerja (LK) berbasis eksperimen pada pembuatan serum wajah berbahan dasar kefir *whey* dan ekstrak buah alpukat. Lembar kerja dibuat dengan metode *desain based research* (DBR), dengan mengadaptasi model ADDIE Instrumen yang digunakan yaitu lembar uji validasi, kisi-kisi lembar kerja, lembar kerja, dan angket validasi yang diisi oleh validator. Penyusunan Lk ini meliputi tahapan analisis konsep pada mata kuliah kimia bahan alam lanjut, analisis literatur penelitian pembuatan serum wajah, analisis langkah-langkah dalam LK. Sehingga menghasilkan prosuk berupa LK. Hasil uji validasi diolah menggunakan teknik kolerasi ( $r$ ) yang membandingkan  $r_{hitung}$  dengan  $r_{kritis}$ . Dari penelitian  $r_{hitung}$  rata-rata 0,77 dengan kategori cukup tinggi. Dengan demikian dapat dikatakan lembar kerja valid dan digunakan sebagai media pembelajaran kimia bahan alam pada konsep *kosmeseutikal*.

**Kata Kunci** : kosmeseutikal, Lembar kerja eksperimen, serum



## ABSTRACT

**Syamrotul Fuadah:** *Development of Experiment-based Worksheets on the manufacture of Face Serum made from Kefir Milk and Avocado Fruit Extract (Persea americana).*

*This study to analyze the results of the worksheet validation test and describe the appearance of the experimental-based worksheet on the manufacture of facial serum made from kefir whey and avocado extract. Worksheets are made using the design based research (DBR) method, by adapting the ADDIE model. The instruments used are validation test sheets, worksheet grids, worksheets, and validation questionnaires filled out by the validator. The preparation of this Lk includes the stages of concept analysis in advanced natural substance chemistry courses, analysis of the research literature on facial serum making, analysis of steps in LK. So as to produce a product in the form of LK. The results of the validation test were processed using the correlation technique ( $r$ ) which compared  $r$ count with criticality. From the research, the mean count was 0.77 which was categorized as quite high. Thus it can be said that the worksheet is valid and used as a learning medium for natural material chemistry on cosmeseutical concepts.*

*Keywords: cosmeseutical, experimental worksheets, serum*

