

## ABSTRAK

Penelitian yang berjudul “Pengembangan Lembar Kerja Siswa (LKS) Praktikum Berbasis Inkuiri Terbimbing Pada Pokok Bahasan Sistem Koloid Melalui Pembuatan dan Pengujian Sabun” bertujuan untuk mengembangkan LKS praktikum berbasis inkuiri dan memperoleh informasi mengenai tingkat keterlaksanaan, respon siswa serta penilaian guru dan dosen terhadap LKS yang dikembangkan. Langkah penelitian yang dilakukan yaitu studi pendahuluan (studi kepustakaan, survei lapangan, dan penyusunan produk awal) dan pengembangan model (uji coba terbatas). Sumber data pada penelitian ini adalah 10 sekolah, bahan ajar (buku, LKS, dan petunjuk praktikum), siswa SMA kelas XI di Kota Bandung, guru kimia SMA, serta dosen jurusan kimia Universitas Pendidikan Indonesia. Instrumen penelitian yang digunakan adalah lembar analisis LKS praktikum, pedoman wawancara, lembar observasi keterlaksanaan praktikum, pedoman penilaian jawaban siswa terhadap tugas LKS, angket respon siswa serta lembar penilaian LKS oleh dosen dan guru. Hasil penelitian pada tahap studi pendahuluan menunjukkan bahwa potret pelaksanaan praktikum pada topik pembuatan dan pengujian sabun umumnya sangat jarang dilakukan. Sedangkan potret LKS pada topik pembuatan dan pengujian sabun yang tersedia saat ini adalah LKS *cook book*. Karakteristik LKS yang dikembangkan pada penelitian ini adalah LKS praktikum berbasis inkuiri terbimbing yang terdiri dari fenomena, merumuskan masalah, membuat hipotesis, mengumpulkan data (memilih bahan, memilih alat, merancang prosedur, serta mengisi tabel pengamatan, menganalisis data), menguji hipotesis serta membuat kesimpulan. Tingkat keterlaksanaan praktikum menggunakan LKS yang dikembangkan tergolong baik sekali (88,32%) yang terdiri dari observasi keterlaksanaan praktikum (98,77%) dan penilaian jawaban siswa terhadap tugas – tugas dalam LKS (77,86%). Adapun respon siswa terhadap praktikum menggunakan LKS yang dikembangkan tergolong baik (77,56%). Berdasarkan penilaian guru dan dosen terhadap LKS tergolong baik sekali (82,29%) yang terdiri dari kesesuaian LKS yang dikembangkan dengan konsep pembuatan dan pengujian sabun (79,72%) dan kesesuaian LKS dengan syarat kebahasaan yang digunakan (84,86%).

Kata kunci: LKS, praktikum, berbasis inkuiri, sabun.

## ABSTRACT

*The study which has title "Development of A Guided Inquiry Lab-Based Worksheet on Colloidal System Through Making And Testing Soap", purposed to develop a guided inquiry-lab based worksheet and obtained information about the level of feasibility, students response, as well as teachers and lecturers assessment toward the developed worksheet. The steps of this study is based on preliminary study (literature study, survey, and initial product design) and model development (limited testing). The data sources in this study were 10 senior high schools, teaching materials (books, student worksheets, lab instructions), 11<sup>th</sup> grade public school students in Bandung, high school chemistry teachers, and lecturers at chemistry department of Indonesia University of Education. The instruments which used in this study are the analysis sheet of student worksheet, interviewing guide, the observation of feasibility level sheet, guideline for student's answer to the tasks including in worksheet, students response questionnaire, as well as teachers and lecturers assessment sheet. The result of preliminary study showed that commonly the laboratory activities on the making and testing soap topic were rarely performed in high schools. Meanwhile, the characteristic of making and testing soap worksheets nowadays were included cook book. Characteristic of worksheet which developed in this study was a guided inquiry lab-based worksheet contained phenomenon, formulating problem, making hypothesis, collecting data (selecting materials, selecting tools, designing procedure, performing experiment, filling observation tables, analyzing data), testing hypothesis, and making conclusion. The feasibility level of laboratory activities using the developed worksheet classified as excellent (88,32%) based on the feasibility observation level (98,77%) and student's answer to the tasks including in worksheet (77,86%). As for the student response to laboratory activities using the developed worksheet classified as good (77,56%). Based on assessment of teachers and lecturers toward the developed worksheet classified as excellent (82,29%) consist from the suitability of the developed worksheet with the making and testing soap concept (79,72%) and the suitability of the developed worksheet with linguistic (84,86%).*

*Keywords: worksheet, laboratory, inquiry-based, soap.*