

ABSTRAK

Telah dilakukan penelitian yang berjudul “Pengembangan Lembar Kerja Siswa (LKS) Praktikum Berbasis Inkuiri Terbimbing Pada Pokok Bahasan Sifat Koligatif Larutan”. Penelitian ini bertujuan untuk mengembangkan dan menghasilkan LKS praktikum berbasis inkuiri terbimbing pada pokok bahasan sifat koligatif larutan. Kualitas LKS praktikum berbasis inkuiri terbimbing yang dikembangkan dinilai berdasarkan tingkat keterlaksanaan praktikum, respon siswa, serta penilaian oleh guru dan dosen. Langkah penelitian yang dilakukan meliputi studi pendahuluan (studi kepustakaan, survei lapangan, dan penyusunan produk awal) dan pengembangan model (uji coba terbatas). Sumber data pada penelitian ini adalah bahan ajar (buku, LKS dan petunjuk praktikum) yang ada saat ini, sepuluh SMA di Kota/Kabupaten Bandung, 24 siswa kelas XII pada salah satu SMA Negeri di kota Bandung, 10 ahli yang terdiri dari tujuh guru kimia SMA di Kota/Kabupaten Bandung dan tiga dosen kimia FPMIPA UPI. Instrumen penelitian yang digunakan adalah lembar analisis LKS praktikum, pedoman wawancara, lembar observasi keterlaksanaan tahapan inkuiri, pedoman penilaian jawaban siswa terhadap tugas-tugas yang terdapat pada LKS, angket respon siswa, dan lembar penilaian oleh guru dan dosen. Hasil penelitian menunjukkan bahwa pelaksanaan praktikum berdasarkan survei lapangan pada pokok bahasan sifat koligatif larutan di sepuluh SMA di Kota/Kabupaten Bandung jarang dilakukan dan LKS praktikum yang terdapat dalam bahan ajar dan penelitian sebelumnya berbentuk instruksi langsung (*cook book*). Tingkat keterlaksanaan praktikum menggunakan LKS praktikum berbasis inkuiri terbimbing pada pokok bahasan sifat koligatif larutan yang dikembangkan termasuk kedalam kategori baik sekali (89,67%), perolehan skor jawaban siswa terhadap tugas-tugas dalam LKS adalah 80,03%. Dari penilaian guru dan dosen diketahui bahwa LKS praktikum berbasis inkuiri yang dikembangkan sesuai dengan konsep proses osmosis memperoleh persentase 80,83% dengan kategori baik dan syarat kebahasaan (tata bahasa) yang digunakan dalam LKS termasuk ke dalam kategori baik (80,80%). Sedangkan untuk respon siswa terhadap LKS praktikum sifat koligatif larutan tergolong baik (76,58%).

Kata kunci : Lembar Kerja Siswa (LKS), inkuiri terbimbing, proses osmosis, sifat koligatif larutan.

ABSTRACT

Has been studied about “Development Guided Inquiry Lab Worksheet (LKS) on Colligative Properties Concept”. The aim of this study was to develop and produce guided inquiry lab worksheet (LKS) on identifying solution through osmotic process. Quality of guided inquiry lab worksheet (LKS) was assessed based on gaining the information about lab practice feasibility, student responses and assessment by teachers and lectures against worksheets developed. Research steps conducted a preliminary studies (literature studies, field surveys, and preparation of the initial product) and the development of the model (within limited testing). Data sources in this study were teaching materials (books, worksheets and practical work instructions) that existed up to this present day, schools, 24 students of senior high school class XII in Bandung, seven senior high school chemistry teachers in Bandung, and three chemistry lecturers of FPMIPA UPI. The research instrument used was a sheet analysis for lab worksheets, interview guides, inquiry stage feasibility observation sheets, assessment guidelines for students’ answers related to the worksheet tasks, student questionnaire responses, and assessment sheets given to teachers and lecturers. The research instrument used was a sheet analysis for lab worksheets, interview guides, inquiry stage feasibility observation sheets, assessment guidelines for students’ answers related to the worksheet tasks, student questionnaire responses, and assessment sheets given to teachers and lecturers. The results showed that the portrait of lab-practice implementation using field survey on the subtopic osmotic process is rarely done. Meanwhile, the portrait of lab-practice worksheets contained in the instructional materials is still in the form of direct instruction (*cook book*). Lab practice feasibility achieved by using worksheets developed in this study were 89,67%, means it is included into excellent category, consisted of inquiry stage progress observation (99,31%), and students’ answer related to the worksheet tasks (80,03%). The assessment from teachers and lecturers shows that the worksheets developed is in accordance with the concept of osmotic process (80,83%) and the terms of language (grammar) used in the worksheets results in good category (80,80%). Students’ responses to the implementation of identifying solution through osmotic process lab using guided inquiry lab worksheets results in good category (76,58%).

Keywords : Student Worksheet (LKS), guided inquiry, osmotic process, colligative properties.

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