

## Laporan Praktek Kerja Profesi Apoteker di PT. LAPI Laboratories, Kawasan Industri Modern Cikande, Serang Periode 1 April – 29 April 2013

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### Abstrak

Praktek Kerja Profesi Apoteker di PT. LAPI Laboratories bertujuan agar calon apoteker dapat meningkatkan pengetahuan dan wawasan tentang segala aspek CPOB yang berhubungan dengan industri farmasi serta mengetahui penerapan CPOB di PT. LAPI Laboratories serta mengetahui peran dan tanggung jawab apoteker di industri. Tugas khusus berjudul Proses Pengolahan Limbah Sefalosporin di PT. LAPI Laboratories yang bertujuan untuk memahami proses pengolahan air limbah industri farmasi, memahami reaksi kimia yang terjadi saat pengolahan limbah sefalosporin dan mengetahui metode analisis yang dapat mendeteksi residu sefalosporin di air limbah.

Berdasarkan hasil studi literatur diketahui bahwa proses pengolahan air limbah industri farmasi terdiri dari proses fisik, kimia dan biologi. Reaksi kimia yang terjadi saat pengolahan limbah sefalosporin merupakan reaksi netralisasi pH limbah dan degradasi inti beta laktam sefalosporin. Metode analisis kromatografi lapis tipis dengan fase diam SnO<sub>2</sub> dapat mendeteksi residu sefalosporin di air limbah.

*Pharmacist Internship Program at PT. LAPI Laboratories aimed in order to pharmacist candidates can improve their knowledge and insight about all GMP aspects that related to pharmaceutical industry and determine the application of GMP at PT. LAPI Laboratories and know the roles and responsibilities of pharmacists in the industry. A special assignment was entitled Cephalosporins Waste Treatment Process at PT. LAPI Laboratories aimed to understand the pharmaceutical industry's wastewater treatment process, the chemical reactions that occur when cephalosporins waste treatment and to know the analysis method that can detect cephalosporin residues in wastewater.*

*Based on the results of the study of literature was known that pharmaceutical industry's wastewater treatment process consists of physical, chemical and biological reactions. Chemical reaction that occur in cephalosporins waste treatment is waste pH neutralization reaction and degradation of cephalosporins's beta-lactam nucleus. thin-layer chromatography with stationary phase SnO<sub>2</sub> analysis method can detect cephalosporin residues in wastewater.*