

PENETAPAN KADAR BENZALDEHID PADA JENIS PARFUM “X” DARI TIGA TOKO PARFUM DI WILAYAH SURABAYA TIMUR

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ABSTRAK

Benzaldehid memiliki efek berbahaya jika terkandung dalam konsentrasi lebih dari 0,27% dalam sediaan parfum 100 mL. Telah dilakukan analisis Benzaldehid pada parfum jenis “X” dari tiga toko di wilayah Surabaya Timur. Penentuan kadar Benzaldehid menggunakan alat kromatografi gas dengan detektor FID (*flame ionization detector*). Dari hasil uji kualitatif, ditemukan adanya Benzaldehid terkandung dalam jenis sampel parfum “X”, dilanjutkan dengan uji kuantitatif yang sudah memenuhi persyaratan validasi linieritas, akurasi dan presisi, dengan LOD=0,0018‰ dan LOQ=0,006‰ terhadap tiga jenis sampel parfum “X” yang didapat dari tiga toko berbeda ternyata kadar Benzaldehid yang didapat pada sampel “X₁”, “X₂” dan “X₃” yaitu 0,016‰, 0,003‰, 0,018‰. Ditarik kesimpulan kadar Benzaldehid yang didapatkan masih memenuhi persyaratan dari IFRA yaitu kurang dari 0,27% dalam sediaan parfum 100 mL (*International Fragrance Association*).

Kata Kunci : benzaldehid, kromatografi gas , sampel parfum “X”, validasi

ASSAY OF BENZALDEHYDE ON PERFUME “X” FROM THREE PERFUME SHOP IN EAST REGION SURABAYA

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ABSTRACT

Due to Benzaldehyde is harmful effects if present at high concentrations which is more than 0,27% in 100mL perfume. The analysis has been done on the perfume type “X” from three stores in the east region Surabaya. Determination of Benzaldehyde in this research was using a Gas Chromatography with FID detector (flame ionization detector). From the results of the qualitative test, it is found that the sample “X” contains Benzaldehyde. Followed by a quantitative test that has been validated with LOD=0,0018‰ and LOQ=0,006‰ against the three samples X obtained from three different stores, the concentration of Benzaldehyde of sample “X₁”, “X₂” and “X₃” are 0,016‰, 0,003‰, 0,018‰. The conclusion is concentration of Benzaldehyde still meet the requirements from IFRA (International Fragrance Association).

Keywords : Benzaldehyde, Gas Chromatography, perfume “X”, validation

