

ABSTRACT

Employment of separation methods in the field of drug analysis II

Diploma Thesis

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This diploma thesis summarizes findings of both drug analysis done by gas chromatography and validation of analytical method. The mixture of glycerol, 1,3-butanediol and two other substances was studied.

Specificity, linearity, precision and accuracy were studied and verified.

In terms of robustness, the following parameters of the method were changed: the flow rate of carrier gas, split ratio, carrier gas, stability of the sample, the temperature of detector, the temperature of injection port and the temperature of column.

Further, the author demonstrate that the method is mostly influenced by the flow rate of carrier gas and the temperature of column of the first part.

Finally, the 24-hour stability of the sample was confirmed.