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摘要: 目的: 采用反相高效液相色谱法测定(7-甲氧基-3,4-二氢-1-萘基)乙腈含量及其有关物质。方法: 采用Diamonsil TM(钻石)C18(250mm×4.6mm,5μm) 色谱柱, 流动相为甲醇-水(68:32), 检测波长232nm, 流速0.8mL/min。结果: 此色谱条件下(7-甲氧基-3,4-二氢-1-萘基)乙腈与有关物质能达到有效分离, 在40.48~161.92μg/mL范围内线性关系良好, r=0.9998; 仪器精密度RSD为0.94%; 方法重复性RSD为1.3%; 最低检测限4.9ng。结论: 该方法简便、准确、可行, 可用于(7-甲氧基-3,4-二氢-1-萘基)乙腈的质量控制。

关键词: 反相高效液相色谱法, 乙腈, 含量测定, 有关物质, 7-甲氧基四氢萘-1-酮

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RP-HPLC determination of content of (7-methoxy-3,4-dihydro-1-naphthyl) acetonitrile and its related substances

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Abstract: Objective: A reversed phase high performance liquid chromatography method for the determination of content of (7-methoxy-3,4-dihydro-1-naphthyl) acetonitrile and its related substances. Methods: The analysis was performed on Diamonsil C18 reversed-phase analytical column(250mm×4.6mm,5μm); the mobile phase consisted of a mixture of methanol-water(68:32); The ultraviolet detection wavelength was set at 232nm. The flow rate was 0.8 mL/min. Results: (7-methoxy-3,4-dihydro-1-naphthyl) acetonitrile and its related substances could be separated well. The linearity of the (7-methoxy-3,4-dihydro-1-naphthyl) acetonitrile curve was well correlated (r=0.9998) within the range of 40.48-161.92μg/mL. The instrument precision RSD was 0.94%; The method precision RSD was 1.3%; The detection limit was 4.9ng. Conclusions: The method appeared to be simple, accurate and reproducible; It can be used to control the quality of (7-methoxy-3,4-dihydro-1-naphthyl) acetonitrile.

Key words: RP-HPLC, (7-methoxy-3,4-dihydro-1-naphthyl) acetonitrile, Assay, Related substances, 7-Methoxy-tetrahydro-naphthalene-1-ketone

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