顶空气相色谱法测定盐酸氮卓斯汀中残留溶剂

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摘　要：建立毛细管气相色谱法测定盐酸氮卓斯汀中残留溶剂。采用DB-624毛细管色谱柱，FID检测器，二甲基甲酰胺为溶剂，程序升温，外标法同时检测盐酸氮卓斯汀中乙醇、丙酮、二氯甲烷、正己烷4种有机溶剂残留量。各待测组分完全分离，线性关系良好，检测限分别为3.51μg/mL、0.35μg/mL、2.12μg/mL、0.11μg/mL，精密度RSD<5%，平均回收率99.1%~102.4%。本法操作简单，结果准确可靠，可用于盐酸氮卓斯汀中残留溶剂的检测。

关键词：盐酸氮卓斯汀,顶空气相色谱法,残留溶剂

Determination of residual solvents in azelastine hydrochloride by headspace gas chromatography

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Abstract: To establish a method for determining the four kinds of residual solvents in azelastine hydrochloride by headspace gas chromatography. The determination was carried out on a DB-624 capillary column(30mm×0.53mm, 3μm) with sequential increase of temperature programming. N,N-dimethyformamide as solvent media,with the FID detector .It appears a good linearity in the experimental concentration(r≥0.9991). The detector limit of ethanol, acetone, chloromethane and n-hexane separately were 3.51, 0.35,2.12,0.11μg/mL . The RSD of precision were all less than5.0% . The average recoveries were 99.1%~102.4% . The method is simple, sensitive and accurate. It could be used for detection of four residual solvents in azelastine hydrochloride .

Key words: Azelastine hydrochloride,Headspace gas chromatography,Residual solvent