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摘要: 建立毛细管气相色谱法测定苯并三唑衍生物(Tir)中有机溶剂残留量。采用DB-Wax毛细管色谱柱, FID检测器, 二甲亚砜为溶剂, 程序升温, 外标法同时检测Tir原料药中甲醇、乙酸、DMF等3种有机溶剂残留量。各待测组分完全分离, 线性响应良好, 曲线相关系数 ≥ 0.999 , 检测限分别为0.4ng, 2.1ng, 1.0ng, 精密度RSD均小于3%, 平均回收率为96.0%-104.0%, 方法简便灵敏, 结果准确可靠, 适用于Tir中有机溶剂残留量的检测。

关键词: 苯并三唑衍生物, 有机溶剂残留, 毛细管气相色谱法

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[Determination of methanol, acetic acid and dimethylformamide in benzotriazine derivate by capillary gas chromatography](#)

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Abstract: To establish a method for determination of three residual solvents in benzotriazine derivate (Tir). The residual solvents which are methanol, acetic acid and N,N-dimethylformamide (DMF) were quantitatively determined by capillary GC on DB-Wax column, Dimethyl Sulfoxide as solvent media, with FID detector. Three residual solvents were completely separated. There was a good linearity($r: \geq 0.999$). The detected limits of methanol, acetic acid and DMF were 0.4, 2.1, 1.0ng; the RSD of precision was less than 3%; the average recovery rate of the preparation was in the range of 96.0%-104.0%. The method is simple, sensitive and accurate and can be used for the quality control of Tir.

Key words: Benzotriazine derivate, Residual solvents, Capillary gas chromatography

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