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**摘要:** 本文研究了进口保健食品中褪黑激素的提取、净化、定性、定量的高效液相色谱(HPLC)法条件,建立了HPLC法快速测定保健食品中褪黑激素的可靠方法。本方法具有操作简便、快速、结果准确可靠、再现性好的特点;褪黑激素在两种进口保健食品麦乐道中三个水平的添加回收率在97.6%~105.7%之间,变异系数(n=8)在0.27%~1.64%之间,本方法在0.01mg/ml~0.2mg/ml浓度范围内有良好的线性关系,相关系数 $r=0.9998$ ;最低检出浓度:1.1 $\mu\text{g/ml}$ ;最小检出量:2.8ng。

**关键词:**

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[Study on Determination of the Melatonin In Imported Health Foods with HPLC](#)

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**Abstract:** A reliable method to determine melatonin in imported health foods, has been developed with HPLC, through the study of extraction, purification, qualitative and quantitative analysis. The recovery range of determination is 97.6%~105.7% for the three kinds of imported health foods. The relative standard deviation range is 0.27%~1.64% for three level determination (n = 8). The good linear range of method is 0.01-0.20 $\mu\text{g/ml}$ , and the  $r = 0.9998$ . the limit concentration is 1.1 $\mu\text{g/mL}$ , and the limit quanti

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