

A Facile Synthesis of Pyrrolidine Derivatives

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The Amaryllidaceae alkaloids have attracted considerable attention for their interesting biological activities.^[1] Many of these tyrosine derived alkaloids^[2] incorporate a hexahydroindole moiety in the structural skeletons. New approaches towards the synthesis of hexahydroindole core have been a topical interest for the synthetic community. Herein we report an experimentally very simple method for the synthesis of hexahydroindole by aminocyclization. Four kinds of *N*-substituted have been demonstrate to be effective to this cyclization. The results were summarized in Figure 1.

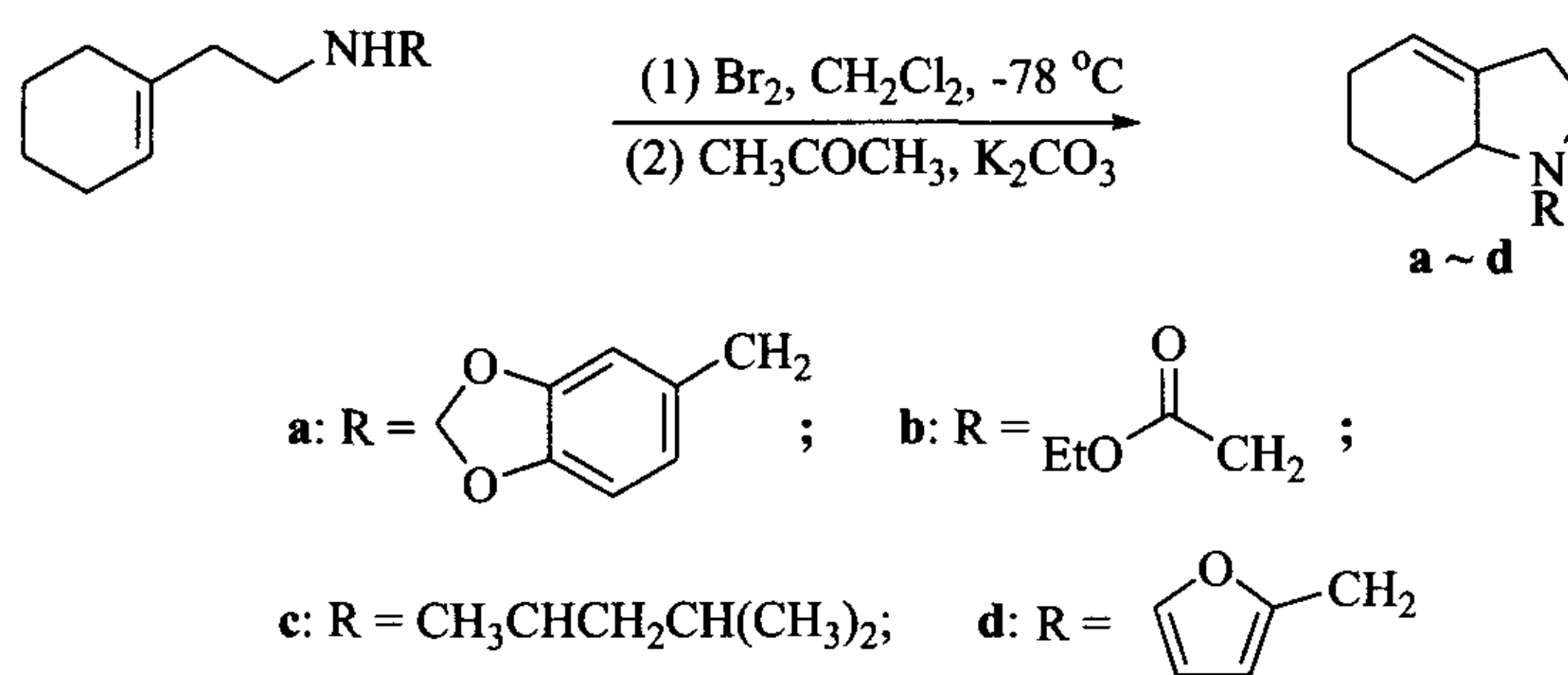


Figure 1 Aminocyclization for the synthesis of pyrrolidine derivatives

References

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- 2 Dalton, D. R. *The Alkaloids*, Pub. Dekker, **1979**, Chapter 18.

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