

# Reduction of 1-Hydroxyimino-1,2,3,4-tetrahydrocarbazoles by Metal and Baker's Yeast – Syntheses of Aminocarbazole Derivatives

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1-Hydroxyimino-1,2,3,4-tetrahydrocarbazoles (**1**) were reduced with zinc in acetic acid and acetic anhydride and with bakers' yeast in an aim to synthesize 1-aminocarbazoles, but interestingly the reaction gave hitherto unknown compounds, 2-acetoxy-1-(acetylamino)carbazoles (**2**) and 6-[acetoxy(hydroxy)methyl]-1-hydroxylaminocarbazoles (**3**), respectively. A plausible mechanism for the formation of compounds **2** and **3** is proposed. All new compounds were characterised by IR, NMR, mass spectral methods and elemental analysis.

*Key words:* Aminocarbazoles, 1-Hydroxyimino-1,2,3,4-tetrahydrocarbazoles, Metal Reduction, Baker's Yeast