

SUPPLEMENTARY MATERIAL TO  
**Optimization of the reaction conditions for the synthesis of  
2,3,5-trimethylpyridine from 3-amino-2-methylpropenal and  
methylethylketone**

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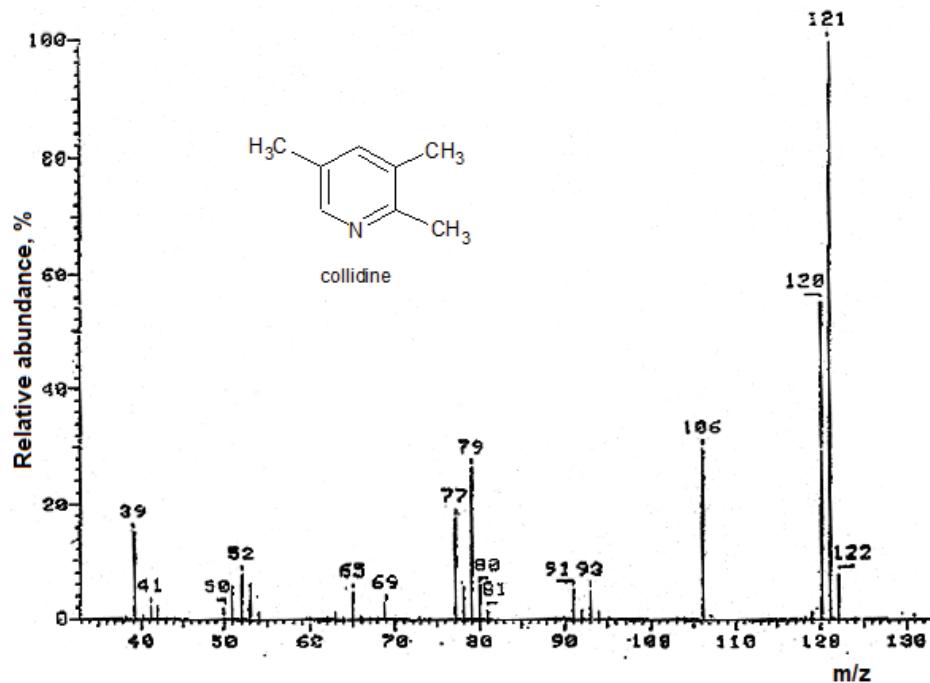


Fig. S-1. Mass spectrum of collidine detected from the reaction mixture.

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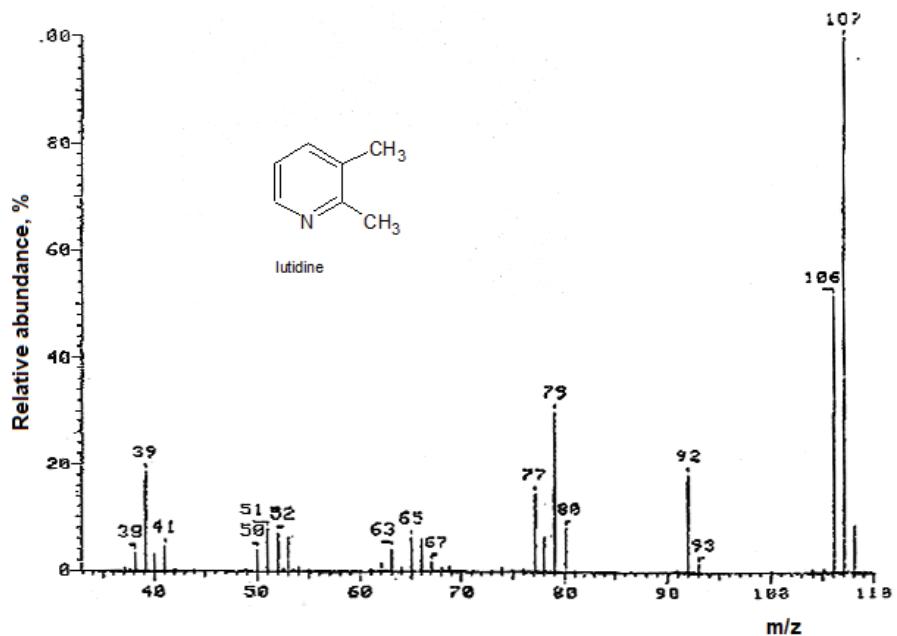


Fig. S-2. Mass spectrum of lutidine (2,3-dimethylpyridine) detected from the reaction mixture.

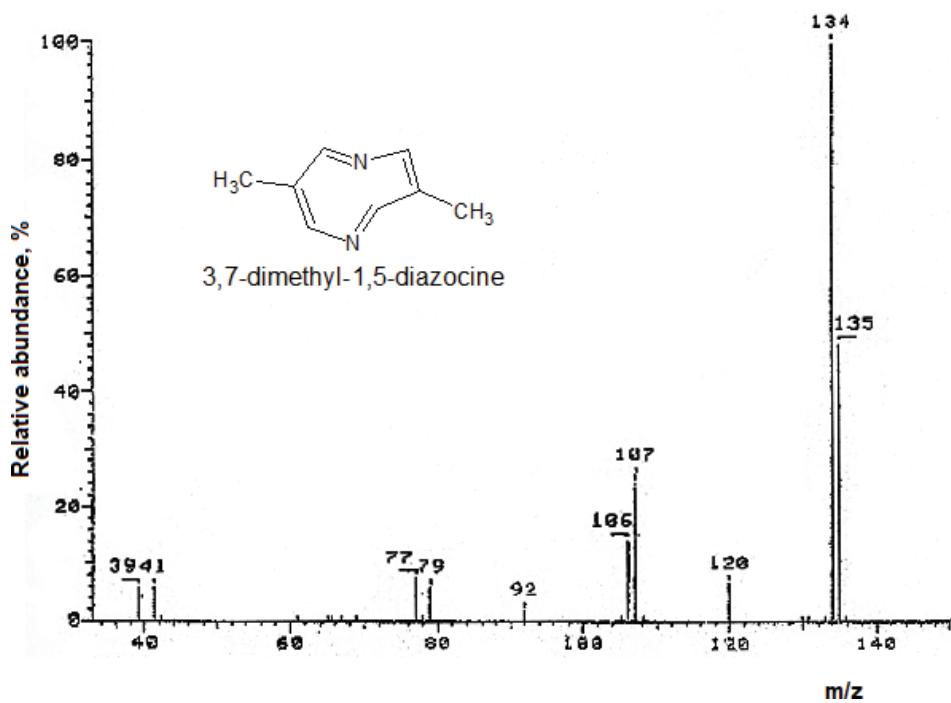


Fig. S-3. Mass spectrum of 3,7-dimethyl-1,5-diazocine detected from the reaction mixture.

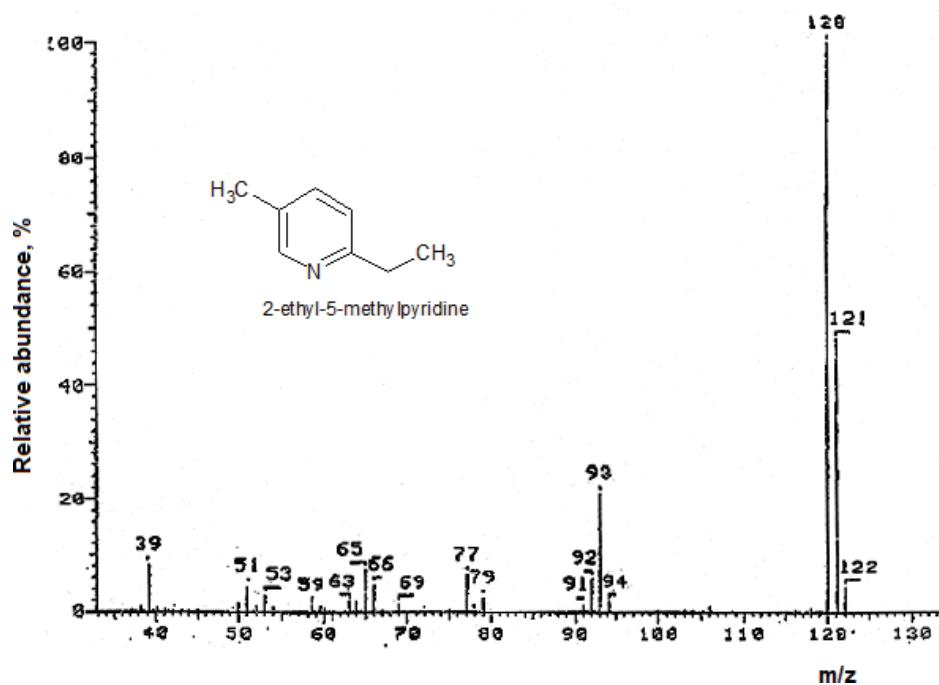


Fig. S-4. Mass spectrum of 2-ethyl-5-methylpyridine detected from the reaction mixture.

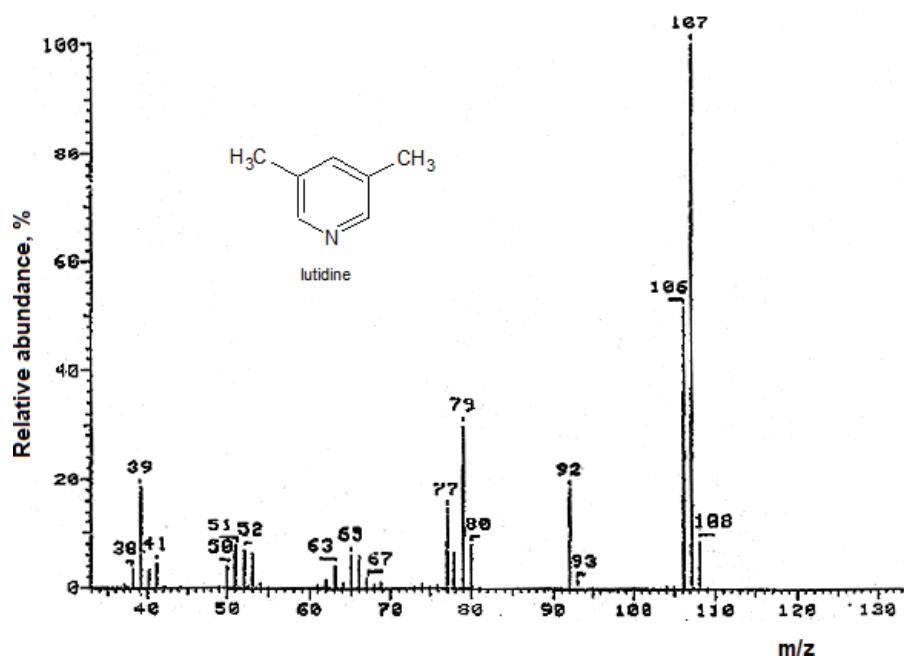


Fig. S-5. Mass spectrum of lutidine (3,5-dimethylpyridine) detected from the reaction mixture.

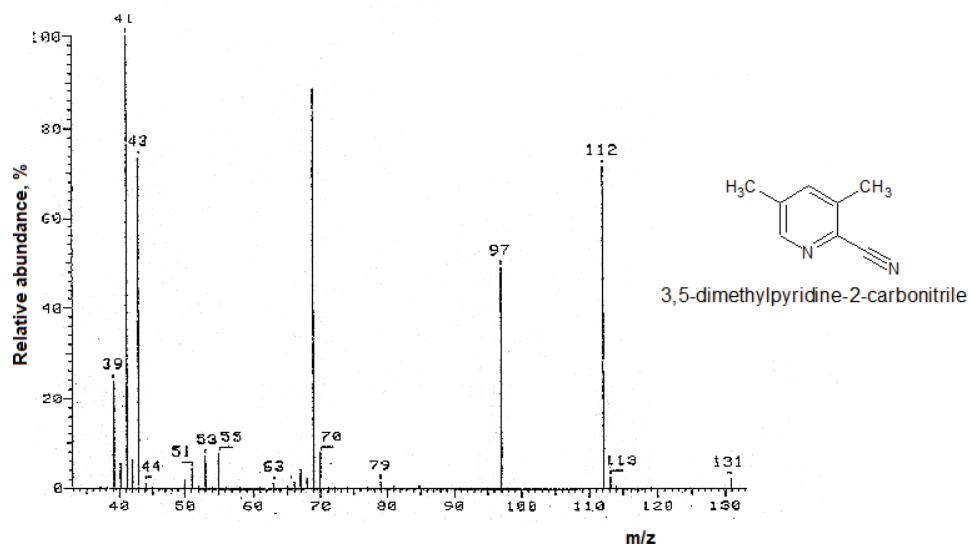


Fig. S-6. Mass spectrum of 3,5-dimethylpyridine-2-carbonitrile detected from the reaction mixture.

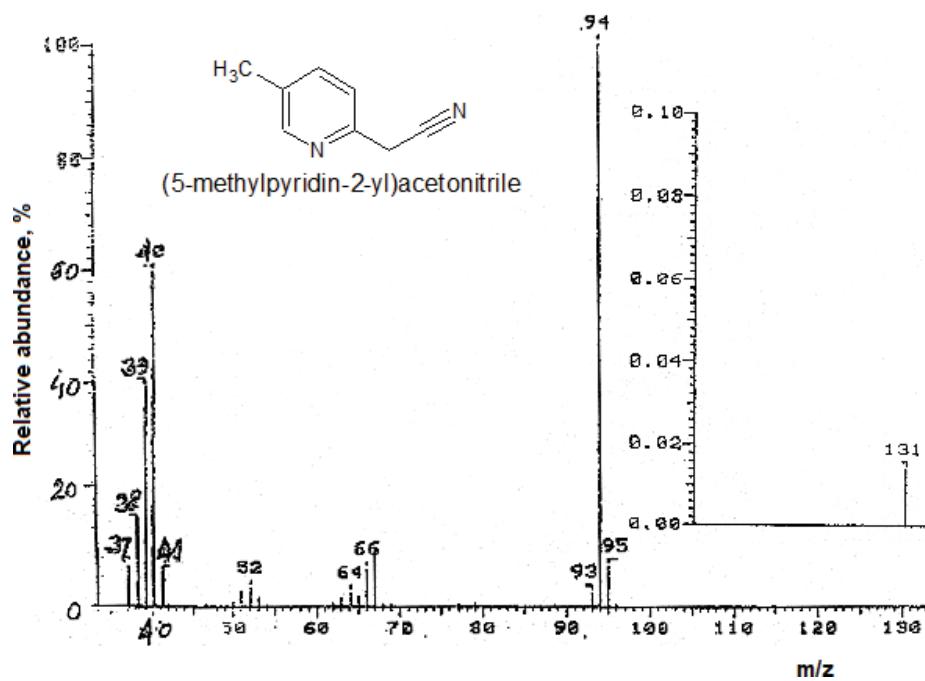


Fig. S-7. Mass spectrum of (5-methylpyridin-2-yl)acetonitrile detected from the reaction mixture.

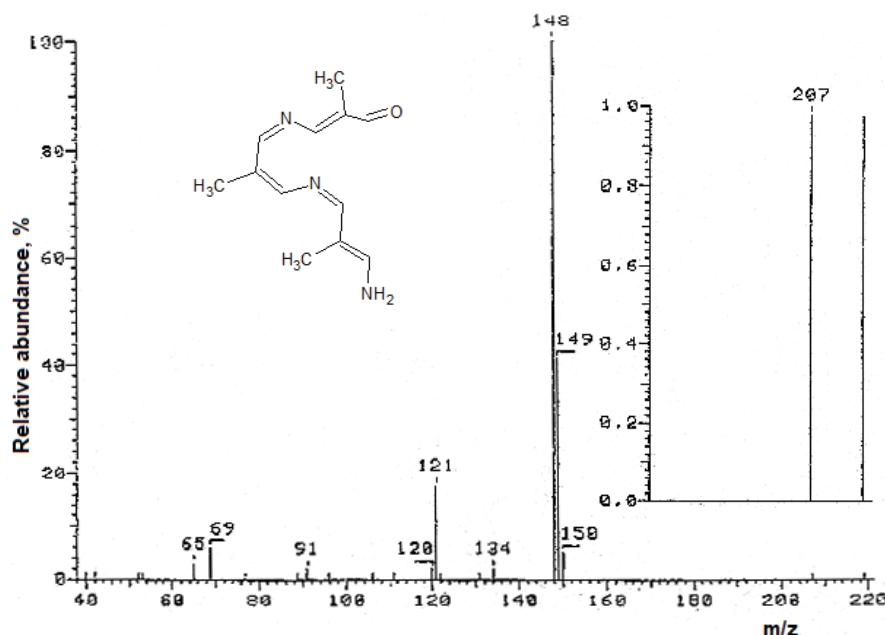


Fig. S-8. Mass spectrum of (2E)-3-{(Z)-[(2Z)-3-{(Z)-[(2E)-3-amino-2-methylprop-2-en-1-ylidene]amino}-2-methylprop-2-en-1-ylidene]amino}-2-methylprop-2-enal detected from the reaction mixture.

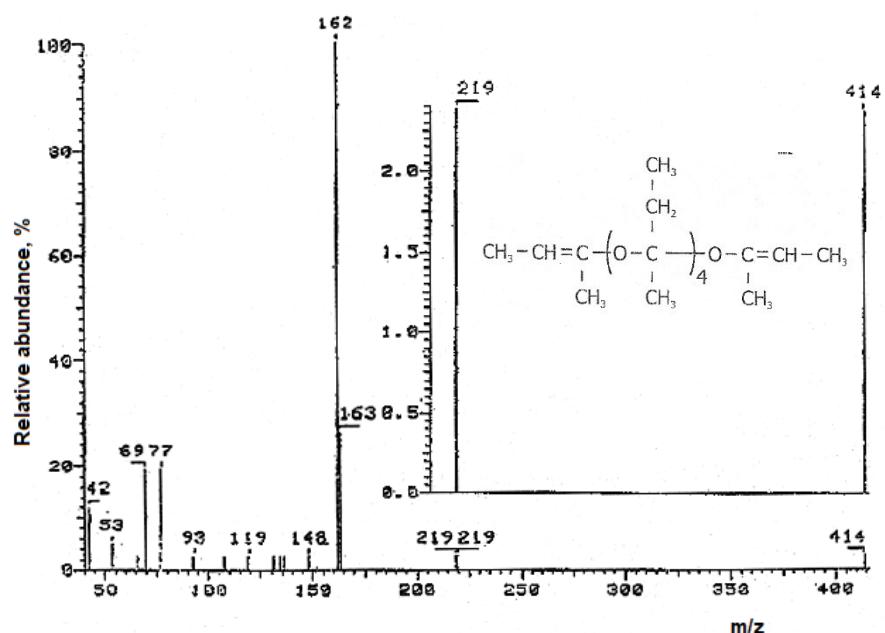


Fig. S-9. Mass spectrum of polycondensate detected from the reaction mixture.

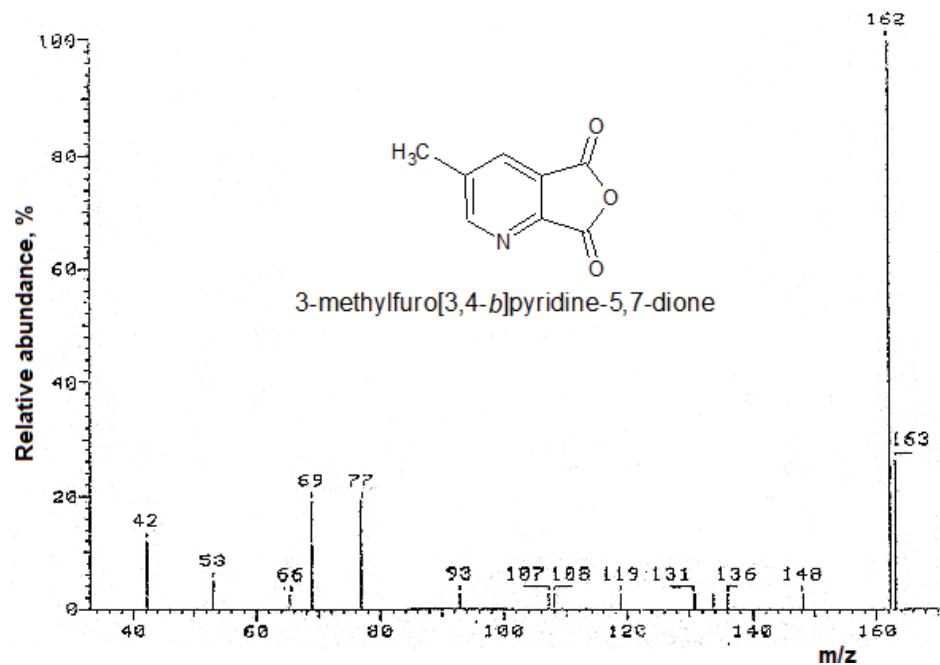


Fig. S-10. Mass spectrum of 3-methylfuro[3,4-*b*]pyridine-5,7-dione detected from the reaction mixture.