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Highly Efficient One-Pot Solvent-Free Synthesis of 2,5-Disubstituted 1,3,4-Oxadiazole via BTI-mediated Oxidation of *N*-Acyldiazide from Hydrazide and Aldehyde

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Abstract

2,5-disubstituted 1,3,4-oxadiazoles are prepared in excellent yields (up to 97%) under totally solvent-free conditions by the quantitative formation of N-acylhydrazone from the reaction of a hydrazide with an aldehyde using a ball-mill for 10 min at room temperature followed by oxidation with BTI at 80 °C for 1 h.

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```

```
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```