

## Use of *Saccharomyces cerevisiae* Yeasts in the Chemoselective Bioreduction of (1*E*,4*E*)-1,5-Bis(4-Methoxyphenyl)-1,4-Pentadien-3-one in Biphasic System

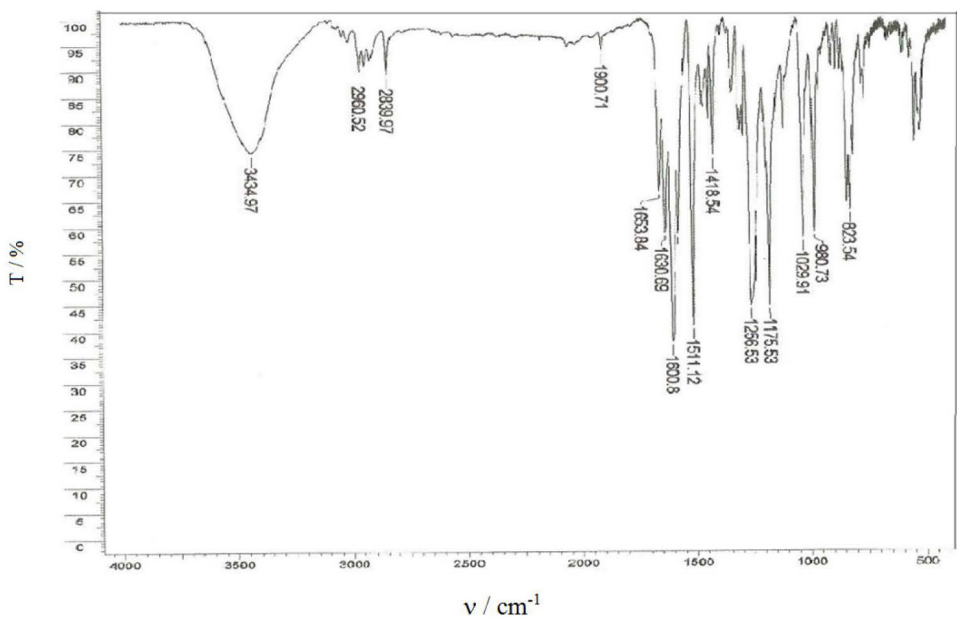
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Preparation of (1*E*,4*E*)-1,5-bis(4-methoxyphenyl)-1,4-pentadien-3-one (**1**)

The  $\alpha,\beta$ -unsaturated carbonyl compound **1** was prepared by aldol condensation in a medium with 50% (m/v) of KOH using two equivalents of 4-methoxybenzaldehyde with one equivalent of acetone according to a commonly applied

procedure described in the literature.<sup>1</sup> This compound was obtained as a yellow solid in 60% yield after 4 h of reaction. Retention time on GC R<sub>t</sub> of 12.5 min; m.p. 116-118 °C (115-117 °C)<sup>2</sup>; (KBr) IV  $\nu_{\max}/\text{cm}^{-1}$  3434, 1653, 1630, 1600, 1511, 1256, 1175, 823; <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz)  $\delta$  (ppm) 7.7 (d, 2H, *J* 16 Hz), 7.5 (d, 4H, *J* 8 Hz), 6.9 (m, 6H), 3.8 (s, 6H, -OCH<sub>3</sub>).



**Figure S1.** IR spectrum (KBr) of (1*E*,4*E*)-1,5-bis(4-methoxyphenyl)-1,4-pentadien-3-one.

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