**Table 2.** The effect of several catalysts in the synthesis of **5a**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Entry | Catalyst | Temperature (ᴼC) | Solvent | Time (min) | Yield (%) |
| 1 | - | 50 | EtOH | 65 | 56 |
| 2 | K2CO3 (5mol %) | 50 | EtOH | 65 | 49 |
| 3 | DABCO(5mol %) | 50 | EtOH | 65 | 45 |
| 4 | SDS (5mol %) | 50 | EtOH | 65 | 65 |
| 5 | *p*-TSA (5mol %) | 50 | EtOH | 65 | 67 |
| 6 | ZrOCl2(5mol %) | 50 | EtOH | 65 | 69 |
| 7 | L-Proline (5mol %) | 50 | EtOH | 65 | 71 |
| **8** | **TBAB (5mol %)** | **50** | **EtOH** | **65** | **90** |
| 9 | TBAB (10mol %) | 50 | EtOH | 65 | 78 |

Phenyglyoxal (1mmol), barbituric acid (1mmol) and 1,3-dimethyl-6-aminouracil (1mmol) EtOH (5 mL)