

Supplementary information

Blending of cellulolytic enzyme preparations from different fungal sources for improved cellulose hydrolysis by increasing synergism

Mukund Adsul,* Bhawna Sharma, Reeta Rani Singhania, Jitenrdra Kumar Saini, Ankita Sharma, Anshu Mathur, Ravi Gupta, and Deepak Kumar Tuli*

DBT-IOC Centre for Advanced Bioenergy Research, Indian Oil R & D centre, Sector-13,
Faridabad-121007 (India)

Results:

Table S1 Enzyme activities of isolated fungal strains and a *P. janthinellum* EMS-UV-8

| Fungal strains | Enzyme activities (IU/ml) | | | |
|----------------|---------------------------|--------|----------------------|---------------|
| | FPU | CMCase | β -glucosidase | Protein-mg/ml |
| IODBF-1 | 0.8 | 17.4 | 2.3 | 3.8 |
| IODBF-5 | 1.01 | 19.4 | 2.4 | 3.7 |
| DBT-IOC-ASMA | 1.6 | 21.7 | 3.7 | 3.4 |
| PDI-6 | 0.78 | 16.2 | 0.58 | 2.3 |
| PDI-8 | 0.66 | 15 | 0.39 | 2.9 |
| A2-Old | 0.95 | 27.4 | 0.1 | 6.0 |
| MGA | 0.94 | 21.8 | 2.9 | 5.1 |
| EMS-UV-8 | 2.2 | 15.3 | 0.33 | 5.7 |

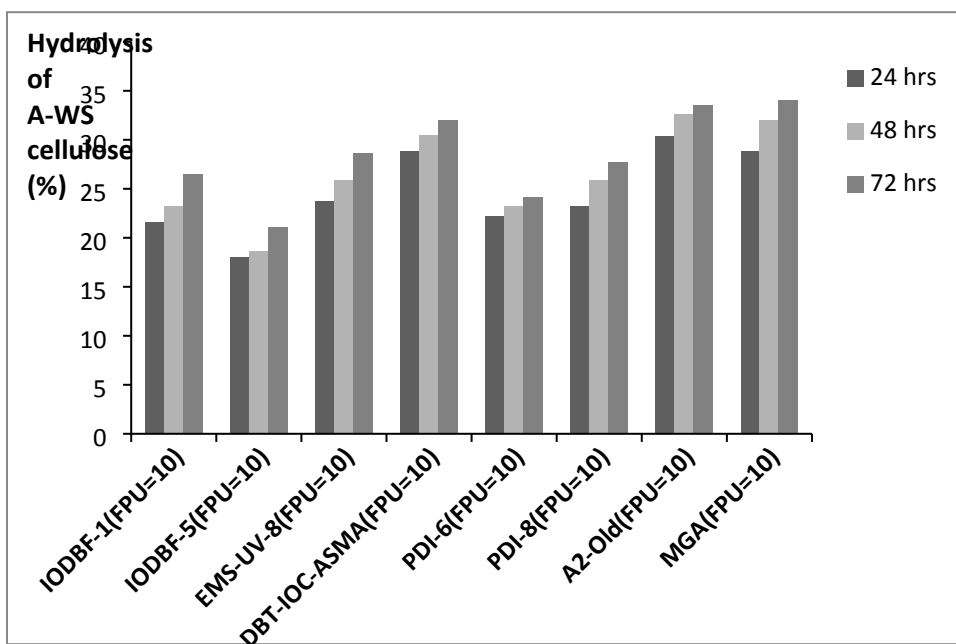
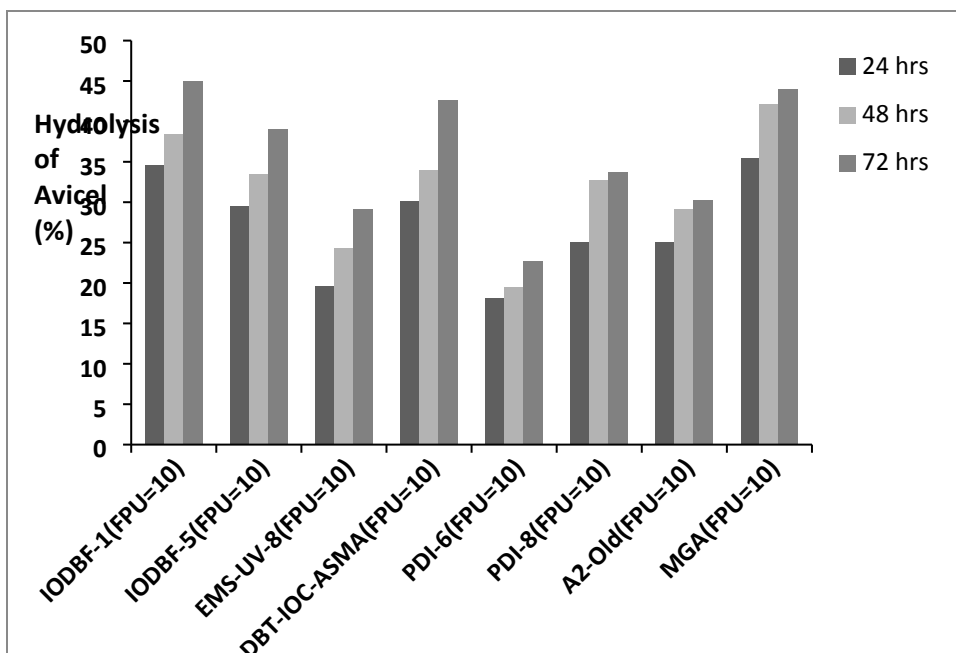


Figure S1 Enzymatic hydrolysis of avicel and dilute acid treated wheat straw/A-WS (4% w/v) using 10 FPU from each fungal strain.

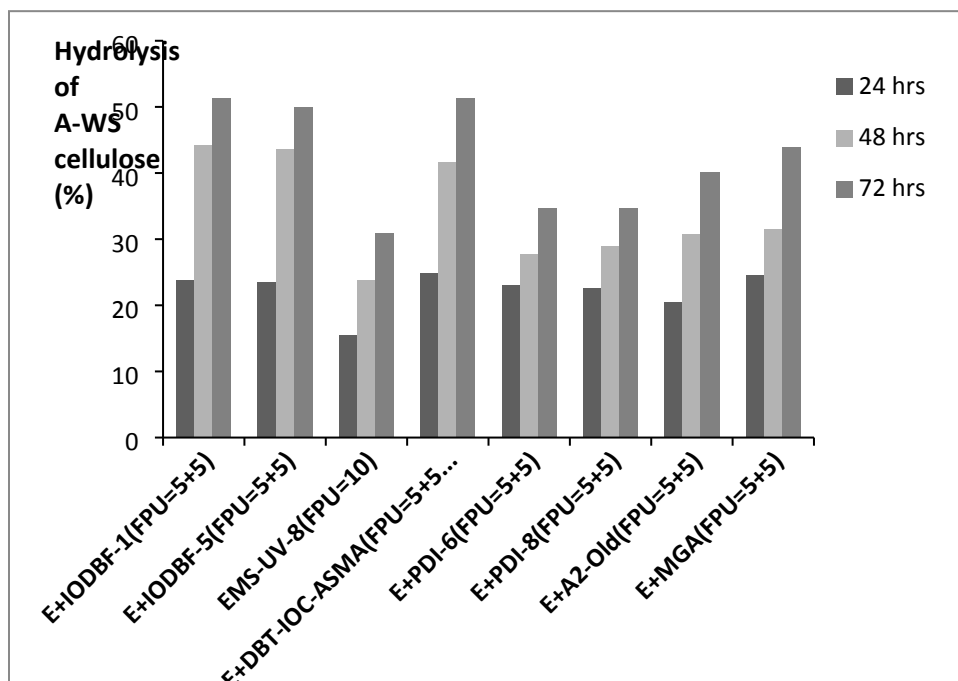
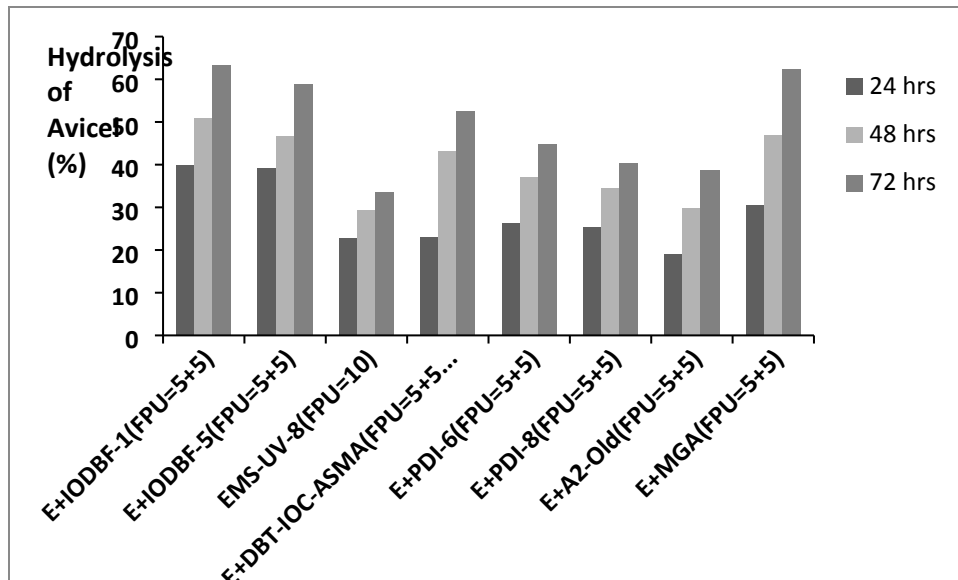


Figure S2 Enzymatic hydrolysis of avicel and A-WS (4% w/v) using 5 FPU from EMS-UV-8 (E) and 5 FPU from other seven fungal strains separately.