

Table 1 Comparison between the kinetics parameters of the BOD from *B. pumilus* (Durand et al. 2012b), *B. licheniformis* (Koschorreck et al. 2008), *Bacillus HR03* (Mohammadian et al. 2010), *B. subtilis* (Duraio et al. 2008), *M. verrucaria* (Kataoka et al. 2005b) and *M. oryzae* (Durand et al. 2012a)

Substrate	<i>B. licheniformis</i>				<i>B. subtilis</i>				<i>Bacillus HR03</i>			
	K _M (μM)	k _{cat} (s ⁻¹)	k _{cat} /K _M	pH	K _M (μM)	k _{cat} (s ⁻¹)	k _{cat} /K _M	pH	K _M (μM)	k _{cat} (s ⁻¹)	k _{cat} /K _M	pH
ABTS	6.5	83	12.76	4	124	322	2.6	4	535	127	0.24	4
SGZ	4	100	23	7	18	80	4.44	7	5	20	4	7
2,6-DMP	56	28	0	7	216	29	0.13	7	53	3	0.06	7.4
Conjugated bilirubin			nd		15	nd	nd	7			nd	
Unconjugated bilirubin			nd		8	nd	nd	7			nd	
Substrate	<i>B. pumilus</i>				<i>M. verrucaria</i>				<i>M. oryzae</i>			
	K _M (μM)	k _{cat} (s ⁻¹)	k _{cat} /K _M	pH	K _M (μM)	k _{cat} (s ⁻¹)	k _{cat} /K _M	pH	K _M (μM)	k _{cat} (s ⁻¹)	k _{cat} /K _M	pH
ABTS	31.7	391	12	3	250	115	0.46	6.5	429	664	1.54	4
SGZ	45	116	2	6.2			nd		26	14	0.54	7
2,6-DMP	822	57	0	6.8			nd				nd	
Conjugated bilirubin	35	67	1	4.8	120	117	0.98	5.5	18	29	1.61	3.6
Unconjugated bilirubin	22	70	3	7.2	370	94.3	0.25	8			nd	

nd not determined