

Table S1 The data of height, diameter, numbers of internode/leaves, NH₄⁺, NO₃⁻, the contents of lignin, cellulose, and hemicellulose.

Sample	Height (cm)	Diameter (mm)	Interganglion/ Leaves number	Ammonium nitrogen content (µg/g)	nitrate nitrogen concentration (µg/g)	Lignin content (%)	Cellulose content (%)	Hemicellulose content (%)
L	80.5	4.08	26/25	3.692588	598.9481	26.84704	39.27273	17.16421
	80	4.43	27/26	4.056389	612.0973	27.0102	38.24242	17.12211
	81	4.46	26/25	3.692588	589.0861	27.98912	38.48485	17.03789
	80	4.48	26/25			26.76547	39.15152	
	82	4.57	24/23				39.75758	
LM	83	4.52	28/27	7.421555	1144.642	25.46023	40.18182	16.84842
	82.5	4.53	26/25	6.693952	1144.642	26.03127	40.36364	16.93263
	84	4.49	28/27	6.693952	1147.929	25.29708	40.84848	16.91158
	85	4.48	28/27			25.13392	39.81818	
	84.4	4.59	27/26				40.12121	

M	86.3	4.66	29/28	12.51478	1664.037	20.81033	42.36364	15.98526
	86.5	4.68	29/28	13.33333	1815.253	21.78926	42.66667	16.23789
	87	4.76	29/28	13.33333	1805.391	21.05506	42	16.42737
	86.5	4.69	30/29			21.70768	42.42424	
	88	4.63	31/30				44	
HM	90	4.81	33/32	16.42565	1969.757	18.85248	43.51515	15.98526
	91	4.91	32/31	16.1528	2032.216	19.17879	43.21212	15.75368
	91.5	4.9	32/31	15.33424	1927.022	19.26037	43.69697	15.92211
	92	4.96	32/31			18.68933	43.09091	
	91	4.89	33/32				43.87879	
H	97	5.02	33/32	17.7899	1996.055	19.91298	46	15.73263
	96	4.99	34/33	17.7899	2028.928	20.23929	45.63636	15.92211
	95	5.05	34/33	19.42701	2081.525	19.91298	45.69697	15.62737
	93	5.03	33/32			20.15772	45.09091	
	92	5.18	34/33				44.9697	