

A Comparative Analysis of Biodegradation and Bioconversion of *Lentinula edodes* and other Exotic Mushrooms

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Supplementary material

Table S1. Balance of mass into the systematic cultivation of *L. edodes* and exotic fungi capable of producing edible mushroom

Property	<i>L. edodes</i> [Ref. I]	<i>L. edodes</i> [Ref. II]	<i>P. eryngii</i>	<i>F. velutipes</i>	<i>A. aegerita</i>	<i>L. edodes</i> [Ref. I]	<i>L. edodes</i> [Ref. II]	<i>P. eryngii</i>	<i>F. velutipes</i>	<i>A. aegerita</i>
	Initial [g element 1000 g ⁻¹ substrate]					Final [g element 1000 g ⁻¹ substrate]				
Water	483	715.2	621	656	714	568	126.3	431	563.7	543.5
Dry matter	517	284.8	379	344	286	300.5	245.6	316.5	305.6	284.6
Ash	44.6	41.1	63.1	39	23.6	46.7	48.7	58	43.8	31.7
Organic matter	472.4	243.8	315.9	305	262.4	253.8	196.9	258.5	261.8	252.8
NDF	309.4	177.3	237.6	209.6	228.6	139	137.8	176.4	177.5	207.1
NDS	163	66.4	78.2	95.4	33.8	114.8	59.1	82.1	84.3	45.7
ADF	140.1	126.7	157.2	132.1	164.9	96.7	102.9	126	106.8	145.2
Hemicellulose	169.3	50.7	80.5	77.5	63.7	42.3	34.8	50.3	70.6	61.9
Cellulose	87.4	105.2	106.5	90.2	130.4	78.2	92.3	87.1	62.2	108.5
Lignin	52.7	21.4	50.6	42	34.5	18.5	10.7	38.9	44.6	36.7
Protein	33.4	12.6	22.8	21.5	12.5	19.3	8.5	16.7	18.5	13
Crude fibre	112.2	98.3	134.4	93.2	126.5	76.4	78	105.2	75.5	109
Crude fat	9.8	1.9	4.5	7.7	0.9	8.1	1.5	4.1	7.3	0.8
N-free extract	317.1	131.1	154.1	182.5	122.4	150	108.9	132.4	160.4	130
Total CHO _s	429.2	229.4	288.5	275.8	248.9	226.4	186.9	237.6	235.9	239.1
Theoretical CHO _s	341.9	124.1	182	185.6	118.6	148.2	94.6	150.6	173.7	130.6

Neutral detergent fiber, NDF; neutral detergent soluble, NDS; acid detergent fiber, ADF; carbohydrates, CHO_s.