



Article

# Ganodiesel: A New Biodiesel Feedstock from Biomass of the Mushroom *Ganoderma lucidum* QRS 5120

Besek Mariam Mohamad Jahis <sup>1,2</sup>, Zul Ilham <sup>3,4</sup>, Sugenendran Supramani <sup>1,5</sup>, Mohamad Nor Azzimi Sohedein <sup>1</sup>, Mo-hamad Faizal Ibrahim <sup>2,\*</sup>, Suraini Abd-Aziz <sup>2</sup>, Neil Rowan <sup>6</sup>, Wan Abd Al Qadr Imad Wan-Mohtar <sup>1,4,6,\*</sup>

<sup>1</sup> Functional Omics and Food Bioprocessing, Institute of Biological Sciences, Faculty of Science, Universiti Malaya, 50603 Kuala Lumpur, Malaysia

<sup>2</sup> Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, 43400 UPM Serdang, Malaysia

<sup>3</sup> Biomass Energy Laboratory, Institute of Biological Sciences, Faculty of Science, Universiti Malaya, 50603 Kuala Lumpur, Malaysia

<sup>4</sup> Bioresources and Bioprocessing Research Group, Institute of Biological Sciences, Faculty of Science, Universiti Malaya, 50603 Kuala Lumpur, Malaysia

<sup>5</sup> School of Bioscience, Faculty of Medicine, Bioscience and Nursing, MAHSA University, 42610 Kuala Langat, Malaysia

<sup>6</sup> Bioscience Research Institute, Technical University Shannon Midlands Midwest, N37 HD68 Athlone, Ireland

\* Correspondence: faizal\_ibrahim@upm.edu.my, 603-97691936; qadyr@um.edu.my, 603-79674128

Table S1: Raw data of ENS production from *G. lucidum* QRS 5120.

R1 DAY 13 60%		
INITIAL	FINAL	F-I
0.1724	0.1728	0.0004
0.1742	0.1745	0.0003
0.1709	0.1715	0.0006
<b>Mean</b>		0.000433333
<b>g/L</b>		0.043333333
<b>SD</b>		0.000152753

R2 DAY 13 60%		
INITIAL	FINAL	F-I
0.1679	0.1738	0.0059
0.1803	0.1861	0.0058
0.1677	0.1734	0.0057
<b>Mean</b>		0.0058
<b>g/L</b>		0.58
<b>SD</b>		0.0001

R3 DAY 13 60%		
INITIAL	FINAL	F-I
0.1686	0.1727	0.0041
0.1624	0.1660	0.0036
0.1667	0.1712	0.0045
<b>Mean</b>		0.004066667
<b>g/L</b>		0.406666667
<b>SD</b>		0.000450925

R4 DAY 13 60%		
INITIAL	FINAL	F-I
0.1819	0.1871	0.0052
0.1813	0.1850	0.0037
0.1615	0.1665	0.0050
<b>Mean</b>		0.004633333
<b>g/L</b>		0.463333333
<b>SD</b>		0.000814453

---

R5 DAY 13 60%		
INITIAL	FINAL	F-I
0.1775	0.1806	0.0031
0.1700	0.1728	0.0028
0.1667	0.1700	0.0033
<b>Mean</b>		0.003066667
<b>g/L</b>		0.306666667
<b>SD</b>		0.000251661

R6 DAY 13 60%		
INITIAL	FINAL	F-I
0.1686	0.1723	0.0037
0.1790	0.1835	0.0045
0.1672	0.1715	0.0043
<b>Mean</b>		0.004166667
<b>g/L</b>		0.416666667
<b>SD</b>		0.000416333