

Table 5 Anova table

Source	Sum Squares	of	Degree freedom	of	Mean Square	F Value	P- Value
Model	19737.92		119		165.86	20.28	< 0.0001**
A-Incubation time	1778.95		1		1778.95	217.47	< 0.0001**
B-Temperature	406.51		1		406.51	49.69	< 0.0001**
C-pH	89.89		1		89.89	10.99	0.0035**
D-Inoculum Size	57.84		1		57.84	7.07	0.0151*
E-PUF	15.17		1		15.17	1.85	0.1884
F-Galactose	1078.57		1		1078.57	131.85	< 0.0001**
G-Malt extract	149.41		1		149.41	18.26	0.0004**
H-NH ₄ H ₂ PO ₄	29.00		1		29.00	3.55	0.0743 ⁺
J-CaCO ₃	0.0002		1		0.000163	2E-05	0.9965
K-K ₂ HPO ₄	21.34		1		21.34	2.61	0.1220
L-Tween 80	0.92		1		0.92	0.11	0.7407
M-Tartaric Acid	22.59		1		22.59	2.76	0.1122
N-sodium acetate	65.70		1		65.70	8.03	0.0103*
O-MnSO ₄	370.41		1		370.41	45.28	< 0.0001**
AB	5.82		1		5.82	0.71	0.4089
AC	88.82		1		88.82	10.86	0.0036**
AD	12.39		1		12.39	1.52	0.2326
AE	8.32		1		8.32	1.02	0.3253
AF	0.14		1		0.14	0.02	0.8987
AG	29.87		1		29.87	3.65	0.0704 ⁺
AH	7.47		1		7.47	0.91	0.3508
AJ	10.94		1		10.94	1.34	0.2611
AK	36.62		1		36.62	4.48	0.0471*
AL	5.98		1		5.98	0.73	0.4027
AM	5.79		1		5.79	0.71	0.4100
AN	15.08		1		15.08	1.84	0.1897
AO	27.16		1		27.16	3.32	0.0834
BC	182.97		1		182.97	22.37	0.0001**
BD	0.21		1		0.21	0.03	0.8756
BE	40.29		1		40.29	4.93	0.0382*
BF	2.80		1		2.80	0.34	0.5651
BG	27.98		1		27.98	3.42	0.0792 ⁺
BH	21.28		1		21.28	2.60	0.1224

BJ	37.14	1	37.14	4.54	0.0457
BK	28.48	1	28.48	3.48	0.0768 ⁺
BL	25.56	1	25.56	3.12	0.0924 ⁺
BM	50.82	1	50.82	6.21	0.0216*
BN	105.17	1	105.17	12.86	0.0018**
BO	14.71	1	14.71	1.80	0.1949
CD	67.16	1	67.16	8.21	0.0096**
CE	0.06	1	0.06	0.01	0.9348
CF	27.32	1	27.32	3.34	0.0826 ⁺
CG	22.23	1	22.23	2.72	0.1149
CH	3.86	1	3.86	0.47	0.4998
CJ	4.55	1	4.55	0.56	0.4646
CK	0.58	1	0.58	0.07	0.7934
CL	0.22	1	0.22	0.03	0.8701
CM	102.93	1	102.93	12.58	0.0020**
CN	32.35	1	32.35	3.95	0.0606 ⁺
CO	9.88	1	9.88	1.21	0.2848
DE	0.40	1	0.40	0.05	0.8262
DF	27.09	1	27.09	3.31	0.0838 ⁺
DG	13.08	1	13.08	1.60	0.2205
DH	14.48	1	14.48	1.77	0.1983
DJ	17.28	1	17.28	2.11	0.1616
DK	110.91	1	110.91	13.56	0.0015**
DL	43.57	1	43.57	5.33	0.0318*
DM	2.37	1	2.37	0.29	0.5963
DN	51.14	1	51.14	6.25	0.0212*
DO	88.94	1	88.94	10.87	0.0036**
EF	38.37	1	38.37	4.69	0.0426*
EG	0.76	1	0.76	0.09	0.7632
EH	10.13	1	10.13	1.24	0.2790
EJ	0.96	1	0.96	0.12	0.7352
EK	30.48	1	30.48	3.73	0.0679 ⁺
EL	8.85	1	8.85	1.08	0.3108
EM	96.78	1	96.78	11.83	0.0026**
EN	78.14	1	78.14	9.55	0.0058**
EO	11.22	1	11.22	1.37	0.2553
FG	10.26	1	10.26	1.25	0.2759
FH	4.38	1	4.38	0.53	0.4731

FJ	12.98	1	12.98	1.59	0.2223
FK	21.60	1	21.60	2.64	0.1198
FL	3.79	1	3.79	0.46	0.5038
FM	7.31	1	7.31	0.89	0.3557
FN	28.95	1	28.95	3.54	0.0746 ⁺
FO	62.44	1	62.44	7.63	0.0120*
GH	2.24	1	2.24	0.27	0.6063
GJ	42.47	1	42.47	5.19	0.0338*
GK	32.81	1	32.81	4.01	0.0590 ⁺
GL	90.80	1	90.80	11.10	0.0033**
GM	14.76	1	14.76	1.80	0.1942
GN	0.00	1	0.00	0.00	0.9949
GO	1.49	1	1.49	0.18	0.6739
HJ	0.47	1	0.47	0.06	0.8134
HK	0.66	1	0.66	0.08	0.7798
HL	2.80	1	2.80	0.34	0.5652
HM	166.52	1	166.52	20.36	0.0002**
HN	8.20	1	8.20	1.00	0.3287
HO	5.84	1	5.84	0.71	0.4083
JK	15.04	1	15.04	1.84	0.1902
JL	33.10	1	33.10	4.05	0.0579 ⁺
JM	3.71	1	3.71	0.45	0.5086
JN	0.53	1	0.53	0.06	0.8023
JO	12.43	1	12.43	1.52	0.2321
KL	12.47	1	12.47	1.52	0.2312
KM	0.06	1	0.06	0.01	0.9303
KN	30.58	1	30.58	3.74	0.0675 ⁺
KO	0.46	1	0.46	0.06	0.8154
LM	4.09	1	4.09	0.50	0.4877
LN	8.97	1	8.97	1.10	0.3076
LO	3.19	1	3.19	0.39	0.5391
MN	0.84	1	0.84	0.10	0.7526
MO	7.77	1	7.77	0.95	0.3413
NO	1.26	1	1.26	0.15	0.6993
A ²	822.03	1	822.03	100.49	< 0.0001**
B ²	1362.05	1	1362.05	166.50	< 0.0001**
C ²	1689.38	1	1689.38	206.52	< 0.0001**
D ²	0.24	1	0.24	0.03	0.8659

E ²	326.85	1	326.85	39.96	< 0.0001**
F ²	155.91	1	155.91	19.06	0.0003**
G ²	2.42	1	2.42	0.30	0.5925
H ²	67.27	1	67.27	8.22	0.0095**
J ²	13.40	1	13.40	1.64	0.2153
K ²	228.58	1	228.58	27.94	< 0.0001**
L ²	7.92	1	7.92	0.97	0.3370
M ²	0.02	1	0.02	0.00	0.9567
N ²	4.32	1	4.32	0.53	0.4757
O ²	633.04	1	633.04	77.38	< 0.0001**
Residual	163.61	20	8.18		
Lack of fit	119.18	16	7.45	0.67	0.7485
Total	19901.52	139			

Table 6 NDF, ADF, ADL, IVDMD, and protein values for different straws treated with enzyme along with untreated control straws (values are presented in mean ± Standard deviation)

Straws	DM		NDF		ADF		ADL		IVDMD	
	Control	Treated	Control	treated	Control	treated	Control	treated	Control	treated
Paddy Straw	96.5±0.4	94.8±0.33	78.5±0.56	76.4±0.55*	58.2±0.10	53.8±0.22**	4.4±0.22	4.0±0.23**	37.4±2.37	62.5±1.49**
Little Millet	95.2±0.53	93.4±0.35	79.1±0.56	74.2±0.52*	45.2±0.22	42.9±0.01**	7.2±0.08	5.9±0.04**	34.5±2.91	51.3±1.51**
Foxtail Millet	94.8±0.24	92.8±0.26	78.9±0.57	73.5±0.56*	47.9±0.3	44.1±0.18*	7.7±0.32	5.9±0.09**	38.7±0.76	52.6±1.52**
Branyard millet	94.5±0.25	92.7±0.4	76.3±0.55	73.3±0.44*	50.1±0.12	48.8±0.16*	7.7±0.05	6.6±0.03**	36.6±0.68	43.9±3.05**
Proso Millet	96.1±0.28	94.5±0.29	81.4±0.58	77.5±0.55*	55.9±0.33	53.3±0.08**	9.5±0.08	8.6±0.001**	33±1.47	40.3±2.99**
Browntop Millet	95.2±0.18	93.3±0.37	74.1±0.52	69±0.49*	47.5±0.03	44±0.10**	6.5±0.05	5.1±0.17**	38±1.48	63.8±1.52**
Ragi Straw	94.4±0.11	92.7±0.26	78.9±0.56	74.5±0.53*	49.9±0.09	44.4±0.33**	4.7±0.18	4.1±0.07*	39.8±1.5	60.2±1.52**
Kodo Millet	94.6±0.42	93.2±0.31	78.6±0.56	70.3±0.50**	57.8±0.52	51.2±0.40**	12.2±0.3	9.7±0.03**	37.3±1.49	56.6±5.16**