

ALS GROUP LLC  
 Mongol Nakhmei Building, 2nd khoroо  
 Chinggis Avenue, Khan-Uul District  
 Ulaanbaatar, Mongolia  
 Tel:+976 70 007667



**CERTIFICATE OF ANALYSIS**  
**24H175-TT**

**CLIENT:** Tavantolgoi LLC  
**ADDRESS:** Umnugovi, Tsogtsetsii  
 Tsagaan ovoo bag  
 Tavantolgoi LLC  
**ATTN:** Dorjsuren,N  
**PROJECT NO.** xxx  
**LAB. JOB NO.** 24H175-TT  
**NO. SAMPLES:** 2  
**Notes/Comments:** xxx

**SAMPLES RECEIVED:** 21/Aug/24  
**INSTRUCTIONS RECEIVED:** 21/Aug/24  
**DATE OF REPORT:** 26/Aug/24  
**STATUS OF REPORT:** FINAL  
**ANALYSIS COMPLETE:** 26/Aug/24  
**PREPARATION CODE:** CRUSH-01, 02; MILL-01  
**ANALYSIS CODE:** TM, MOIS, ASH, VOL, TSUL,  
 GCV, CSN, CKIN

**APPROVED BY:** Laboratory Manager  
 Quality Manager  
 TL No 10  
 ИТЭГМЭРГЭЛЭЙН СТАНДАРТЧИННИЙ ТУХАА  
 ХАМГААГАХ ЭРХНИЙ ГЭРМЭ  
 ТУХАА

**CHECKED BY:** Chief Chemist

*These test results are representative only of the sample received in the laboratory.*

LAB NO.	SAMPLE NO.	AS RECEIVED BASIS										AIR DRIED BASIS											
		GB/T 211		GB/T 212		GB/T 212		GB/T 212		ISO 19579		GB/T 213		GB/T 212		GB/T 212		GB/T 212		ISO 19579		GB/T 213	
		Total Moisture (TM)	Ash (ASH)	Volatlie Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)			Moisture (MOIS)	Ash (ASH)	Volatlie Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)			Moisture (MOIS)	Ash (ASH)	Volatlie Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)
1	R3-S8-02-01	3.62	14.23	27.04	55.11	0.96	6932	%		1.04	14.61	27.77	56.58	0.98	7117	%		0.72	22.06	24.67	52.55	0.66	6584
2	R3-S5-01-01	1.51	21.88	24.48	52.12	0.65	6531	%		0.72	22.06	24.67	52.55	0.66	6584	%		0.72	22.06	24.67	52.55	0.66	6584

**QUALITY ASSURANCE/QUALITY CONTROL DATA**

STDALSWS-40/23	ASH	VOL	GCV	TSUL
Certified Value	10.67	20.55	7696	0.620
Standard Deviation	0.056	0.137	24	0.0144
Unit	%	%	Kcal/kg	%
Analyzed value	10.66	20.57	7690	0.620

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LAB NO.	SAMPLE NO.	GB/T 212		ISO 19579		GB/T 213		GB/T 212		ISO 19579		GB/T 213		Crucible Swelling Number (CSN)	Coal Caking Index (CKIN)	
		Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	%	%	kcal/kg		kcal/kg	5:1
1	R3-S8-02-01	14.76	28.06	57.18	0.99	7192	32.92	67.08	1.17	8438	5.5	64	-			
2	R3-S5-01-01	22.22	24.85	52.93	0.66	6632	31.95	68.05	0.85	8526	6.5	78	-			