

**ALS GROUP LLC**

Mongol Nekhmei Building, 2nd khoroo  
Chinggis Avenue, Khan-Uul District  
Ulaanbaatar, Mongolia  
Tel +976 70 007667



**CERTIFICATE OF ANALYSIS  
25C106-TT**

**CLIENT:** Tavantolgoi LLC  
**ADDRESS:** Umnugovi, Tsogttsetsii  
Tsagaan ovoo bag  
Tavantolgoi LLC  
**ATTN:** Javkhlanbayar.B  
**PROJECT NO.** xxx  
**LAB. JOB NO.** 25C106-TT  
**NO. SAMPLES:** 1  
**Notes/Comments:** xxx

**SAMPLES RECEIVED:** 10/Mar/25  
**INSTRUCTIONS RECEIVED:** 10/Mar/25  
**DATE OF REPORT:** 12/Mar/25  
**STATUS OF REPORT:** FINAL  
**ANALYSIS COMPLETE:** 12/Mar/25  
**PREPARATION CODE:** CRUSH-01, 02; MILL-01  
**ANALYSIS CODE:** TM, MOIS, ASH, VOL, TSUL, GCV, CSN, CKIN

**APPROVED BY:** Laboratory Manager  
*[Signature]*  
Quality Manager

**CHECKED BY:** Chief Chemist

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

LAB NO.	SAMPLE NO.	STANDARD METHOD															
		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	GB/T 212	ISO 19579	GB/T 213				
		AS RECEIVED BASIS						AIR DRIED BASIS									
Total Moisture (TM)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Moisture (MOIS)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)						
1	S5-01	6.35	19.93	%	23.99	49.73	0.85	kcal/kg	6234	0.76	21.12	25.42	%	52.70	0.90	kcal/kg	6606

**QUALITY ASSURANCE/QUALITY CONTROL DATA**

STDALWS-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	20.56	7698	0.619

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STANDARD METHOD		GB/T 212	GB/T 212	GB/T 212	ISO 19579	GB/T 213	GB/T 212	GB/T 212	ISO 19579	GB/T 213	GB/T 5448	GB/T 5447		
LAB NO.	SAMPLE NO.	DRY BASIS					DRY, ASH-FREE BASIS					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	3:3	
1	S5-01	21.28	25.62	53.10	0.90	6656	32.54	67.46	1.15	8456	6.5	81	-	