

ALS GROUP LLC  
Mongol Nakhmei Building, 2nd khoroo  
Chinggis Avenue, Khan-Uul District  
Ulaanbaatar, Mongolia  
Tel +976 70 007467



**CERTIFICATE OF ANALYSIS**  
**24I182-TT**

**CLIENT:** Tavantolgoi LLC  
**ADDRESS:** Umnugovi, Tsogttsetsii  
Tsagaan ovoo bag  
Tavantolgoi LLC  
**ATTN:** Dorjsuren.N  
**PROJECT NO.** xxx  
**LAB. JOB NO.** 24I182-TT  
**NO. SAMPLES:** 2  
**Notes/Comments:** xxx

**SAMPLES RECEIVED:** 17/Sep/24  
**INSTRUCTIONS RECEIVED:** 17/Sep/24  
**DATE OF REPORT:** 23/Sep/24  
**STATUS OF REPORT:** FINAL  
**ANALYSIS COMPLETE:** 23/Sep/24  
**PREPARATION CODE:** CRUSH-01, 02; MILL-01  
**ANALYSIS CODE:** TM, MOIS, ASH, VOL, TSUL,  
GCV, CSN, CKIN

**APPROVED BY:** Laboratory Manager  
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)		
%						%					kcal/kg		
1	R3-53-05-01	1.82	10.62	22.90	64.66	0.65	7594	0.73	10.73	23.15	65.38	0.66	7678

**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	10.69	20.48	7701	0.614

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



**CERTIFICATE OF ANALYSIS**  
241182-TT

**CLIENT:** Tavantolgoi LLC  
**ADDRESS:** Umnugovi, Tsogttsetsii  
Tsagaan ovoo bag  
Tavantolgoi LLC  
**ATTN:** Dorjsuren.N  
**PROJECT NO.** xxx  
**LAB. JOB NO.** 241182-TT  
**NO. SAMPLES:** 2  
**Notes/Comments:** xxx

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STANDARD METHOD	LAB NO.	SAMPLE NO.	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		
			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)		5:1	3:3
			%			kcal/kg	%			kcal/kg					
	1	R3-S3-05-01	10.81	23.32	65.86	0.67	7734	26.15	73.85	0.75	8672	7.0	84	-	