

## SEM ( Scanning Electron Microscope) O MEB (Microscopia Electronica de Barrido), acoplada a EDS (Espectroscopia de Rayos X de Energia Dispersiva)

COVILO-LOTE: 202108B2715- FECHA DE ANALISIS: 17/8/2022

ELEMENTOS QUIMICOS	PORCENTAJES (%)																																									
	I-16			I-17			I-18			I-8			I-9			I-10			I-11			I-12		I-13		I-14				I-15												
	E-58	E-59	E-60	E-61	E-62	E-64	E-65	E-66	E-26	E-27	E-28	E-29	E-30	E-31	E-32	E-33	E-34	E-35	E-36	E-37	E-39	E-40	E-41	E-42	E-43	E-44	E-45	E-46	E-47	E-48	E-49	E-50	E-51	E-52	E-53	E-54	E-55	E-56	E-57			
C	55.22	40.92				14.69	13.59	10.67	19.70	15.08	20.11	20.25	45.36	43.68	39.73	44.89	45.18	21.84	13.72	16.50	16.27	18.77					35.66	32.96	74.99	1.91	2.48	1.75	3.92					62.45	61.58	60.45		
O	32.34	32.41	54.55	50.08	53.61	42.68	45.07	44.86	38.84	45.86	18.39	16.90	23.95	21.32	27.74	31.84	22.58	30.32	46.76	46.24	22.60	18.58	19.50	11.28	16.72	18.91	39.73	35.34	12.21	48.22	47.18	51.30	44.74	51.93	50.15	47.80	29.54	27.53	27.50			
Na	3.28	8.42	17.52	16.31	17.99	19.48	21.93	20.55	14.66	11.65	32.40	33.56	29.65	10.12	9.17	5.76	10.37	5.41	9.25	11.37	25.87	29.24	28.07	34.83	33.47	32.28	10.16	12.47	4.92	14.61	12.50	13.42	12.14	16.55	12.83	12.68	2.24	5.28	06.04			
Cl	02.02	4.16		0.72		2.55	4.64	0.75	9.89	5.48	43.32	29.13	21.88	12.23	5.93	2.48	7.37	1.99	0.52	0.72	24.74	29.66	26.15	47.72	38.97	43.46	8.39	9.31	6.59									1.50	3.82	3.76		
K	0.61																																						0.59	0.76		
Cu																			0.47	0.60							0.68															
Br																																										
Ti																																										
Si	0.59	10.14	10.17		12.42	2.29	2.80	7.09							01.01	3.29	1.96	1.77		10.29	12.93	3.19						4.33	0.32	21.84	22.55	14.66	25.1	26.46	29.83	22.14	1.38		0.57			
N			16.24	18.66	14.10																						0.17			8.87	10.75	15.83	07.08				12.01					
P		0.31			0.27	15.60	9.05	12.35	2.24	2.25	1.33	0.30	0.60	1.95	1.90	2.30	02.08	2.18	04.05	5.32	2.63	1.83	2.38	1.97	2.76	2.44	1.44	1.00	0.14	0.02	0.17	0.01	0.47		0.30		0.17	0.66	0.95			
Al		1.21				1.89	2.40	2.68	8.12	9.42	4.00		03.06	8.44	10.53	14.23	10.58	13.14	06.05	6.78	3.93	4.22	4.38	3.26	5.45	2.84	3.62	2.46	0.58			0.90										
F	0.01			1.72						0.23			0.57	0.43		0.01			0.02	0.05	0.04			0.94				0.67	0.07	0.09				1.14	0.19	0.47	0.95	0.46		0.50		
Ca	01.09	1.60	1.52	1.56	1.60	0.82	0.52	01.05	0.71	1.18	0.55		0.05	0.17	0.03	0.35	0.16		0.73	1.53	0.49	0.20	0.08			0.37	0.07	0.16												0.23		
S	4.33			10.96					5.84	8.85																															1.16	
Fe																																										
Mg	0.51	0.82																		0.75								0.33		1.89	1.49	1.14	1.56	1.76	2.71	1.28			0.38			
Cr																																										
Mn																																										
Ce																																										

ELEMENTOS QUIMICOS NO DECLARADOS, % MAYOR A 1

ELEMENTOS QUIMICOS NO DECLARADOS, % MENOR A 1

## REFERENCIAS

I=IMAGEN	N=NITROGENO
E=ESPECTRO	P=FOSFORO
C= CARBONO	Al=ALUMINIO
O= OXIGENO	F= FLUOR
Na= SODIO	Ca= CALCIO
Cl= CLORO	S= AZUFRE
K= POTASIO	Fe= HIERRO
Cu= COBRE	Mg= MAGNESIO
Br=BROMO	Cr= CROMO
Ti= TITANIO	Mn= MANGANESO
Si= SILICIO	Ce= CESIO

SEM ( Scanning Electron Microscope) O MEB (Microscopia Electronica de Barrido), acoplada a EDS (Espectroscopia de Rayos X de Energia Dispersiva)

COVILO-LOTE: 202108B2692 - FECHA DE ANALISIS: 13/10/2022

PORCENTAJES (%)

I-58				I-17			I-55		I-54		I-56				I-53					I-52	CANTIDAD TOTAL	
E-190	E-191	E-192	E-193	E-60	E-61	E-62	E-180	E-181	E-177	E-178	E-182	E-183	E-184	E-185	E-171	E-172	E-173	E-174	E-175	E-170	61	
		23.23							14.36		50.89	52.58	52.81	52.95							22.60	
32.12	32.27	30.59	40.65	54.55	50.08	53.61	37.85	34.00	23.18	27.80	41.05	45.20	40.72	44.63	41.63	39.07	43.31	42.75	42.74	27.80		
18.17	17.14	10.04	21.73	17.52	16.31	17.99	26.07	18.21	9.73	13.05					40.66	30.38	37.19	37.38	38.42	23.98		
9.90	10.47	5.95	5.53		0.72						2.49	1.33	1.31	0.63		0.69					25.62	
28.38	29.37	22.11	16.99										2.19									10
				10.17	10.96	12.42					02.04			0.70								31
				16.24	18.66	14.10																
8.52	7.14	5.47	10.60			0.27	17.99	9.25	05.04	7.86					16.50	12.99	16.81	15.79	16.45			
2.91	3.60	2.60	4.50					38.54	47.70	51.29	3.52	0.89	2.97	01.09	1.20	16.87	2.69	04.08	2.40			40
					1.72																	20
				1.52	1.56	1.60																

ELEMENTOS QUIMICOS NO DECLARADOS, % MAYOR A 1

ELEMENTOS QUIMICOS NO DECLARADOS, % MENOR A 1

REFERENCIAS

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