

Supplementary Information

Electrochemical aptasensing platform based on nanolaminated MAB/MBene phases for the efficient detection of 11-deoxycortisol

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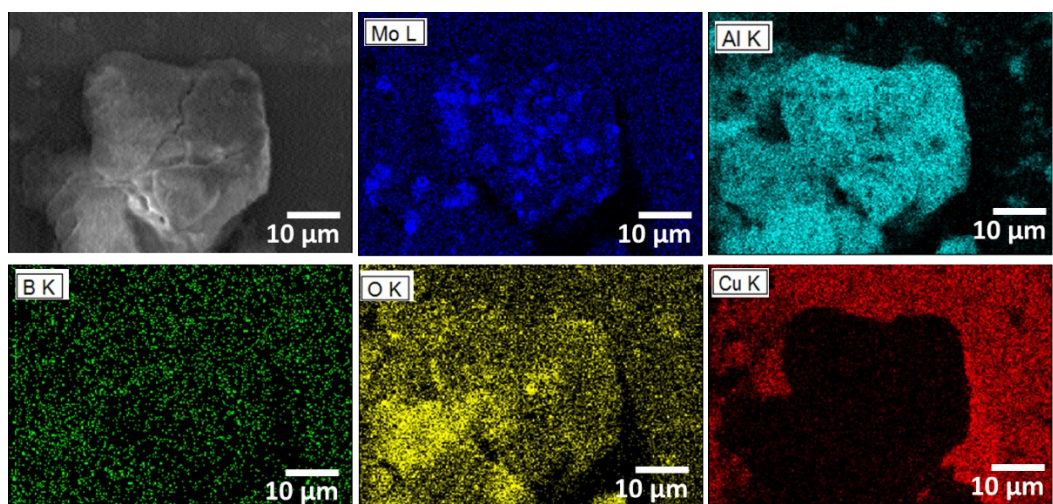


Figure S1: The elemental mapping of MoAlB using EDS

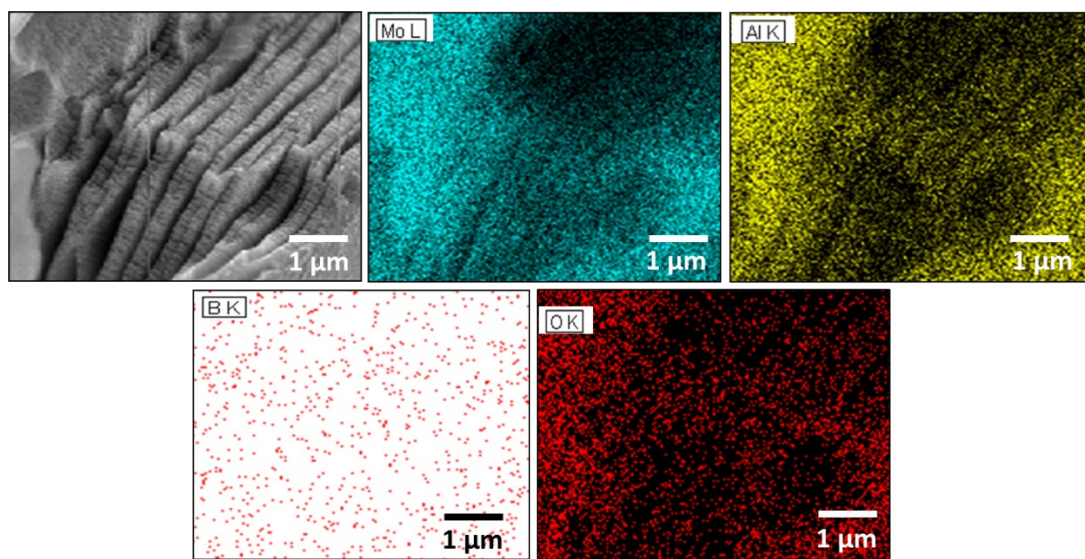


Figure S2: EDS Elemental mapping of ML MBene.

Table S1. Results of the Elemental composition of the MoAlB sample using EDS

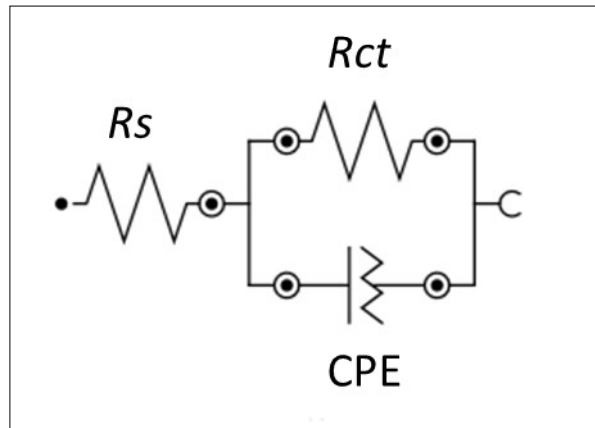
Element	Weight % [$\pm$ Error]	Atom % [$\pm$ Error]
B	0.00 ± 0.12	0.00 ± 0.24
Al	20.01 ± 0.20	39.70 ± 0.40
Mo	64.94 ± 0.54	7.67 ± 0.07
O	4.55 ± 0.38	15.22 ± 1.26
Cu	10.50 ± 0.92	8.84 ± 0.77

Table S2. Results of the Elemental composition of the ML MBene sample using EDS

Element	Weight % [$\pm$ Error]	Atom % [$\pm$ Error]
B	18.57 ± 1.82	55.08 ± 5.39
Al	9.07 ± 0.23	10.77 ± 0.28
Mo	66.40 ± 0.88	22.19 ± 0.29
O	5.96 ± 0.60	11.95 ± 1.20

Table S.3:

Electrode	R _{ct} (k Ω)
SPCE/MWCNTs/AuNPs	38.57
SPCE/MWCNTs/AuNPs/MBene	1.86
SPCE/MWCNTs/AuNPs/MAB	9.64
SPCE/MWCNTs/AuNPs/MBene/Aptamer	24.6
SPCE/MWCNTs/AuNPs/MAB/Aptamer	18.71



Figure_S3: Illustration of the equivalent circuit used in this work. Equivalent circuit.