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Table 1. Fitted electrochemical parameters from EIS data of Cu. EIS parameters for Cu immersed in sterile medium and *D. vulgaris* media with and without 20 ppm riboflavin.

Incubation (day)	R_s ($k\Omega \cdot cm^2$)	Y_f ($\Omega^{-1} \cdot cm^{-2} s^n$)	n_1	R_f ($k\Omega \cdot cm^2$)	Y_{dl} ($\Omega^{-1} \cdot cm^{-2} s^n$)	n_2	R_{ct} ($k\Omega \cdot cm^2$)	Z_w ($\Omega^{-1} \cdot cm^{-2} s^{0.5}$)	$R_f + R_{ct}$ ($k\Omega \cdot cm^2$)
Cu + sterile medium only									
1	0.024	-	-	-	0.00005	0.84	56.4	-	56.4
7	0.023	-	-	-	0.00004	0.85	59.2	-	59.2
Cu + sterile medium + 20 ppm riboflavin									
1	0.023	-	-	-	0.00004	0.86	57.9	-	57.9
7	0.023	-	-	-	0.00004	0.86	61.5	-	61.5
Cu + <i>D. vulgaris</i> only									
1	0.016	0.016	0.45	0.162	0.109	1	0.48	-	0.64
3	0.018	0.008	0.41	0.126	0.113	0.90	0.32	0.047	0.44
5	0.016	0.004	0.49	0.154	0.069	0.97	0.43	0.025	0.59
7	0.017	0.002	0.58	0.124	0.051	1	0.62	0.032	0.75
Cu + <i>D. vulgaris</i> + 20 ppm riboflavin									
1	0.017	0.017	0.57	0.201	0.176	0.97	0.42	-	0.62
3	0.017	0.009	0.37	0.174	0.164	0.99	0.32	0.034	0.49
5	0.016	0.004	0.47	0.171	0.086	0.96	0.41	0.023	0.58
7	0.018	0.001	0.59	0.120	0.068	0.99	0.65	0.036	0.77

Table 2. Fitted electrochemical parameters from EIS data of Ni. EIS parameters for Ni immersed in sterile medium and *D. vulgaris* media with and without 20 ppm riboflavin.

Incubation (day)	R_s ($k\Omega \cdot cm^2$)	Y_f ($\Omega^{-1} \cdot cm^{-2} s^n$)	n_1	R_f ($k\Omega \cdot cm^2$)	Y_{dl} ($\Omega^{-1} \cdot cm^{-2} s^n$)	n_2	R_{ct} ($k\Omega \cdot cm^2$)	$R_f + R_{ct}$ ($k\Omega \cdot cm^2$)
Ni + sterile medium only								
1	0.024	-	-	-	0.00009	0.86	23.1	23.1
7	0.025	-	-	-	0.00008	0.86	25.4	25.4
Ni + sterile medium + 20 ppm riboflavin								
1	0.023	-	-	-	0.00008	0.86	24.4	24.4
7	0.024	-	-	-	0.00008	0.86	26.6	26.6
Ni + <i>D. vulgaris</i> only								
1	0.032	0.002	0.89	4.57	0.007	1	3.17	7.74
3	0.028	0.003	0.79	0.021	0.001	1	5.91	5.93
5	0.023	0.003	0.84	2.95	0.008	1	1.76	4.71
7	0.017	0.003	0.83	2.86	0.011	1	1.56	4.42
Ni + <i>D. vulgaris</i> + 20 ppm riboflavin								
1	0.035	0.003	0.85	5.30	0.007	0.8	0.051	5.35
3	0.014	0.004	0.77	0.022	0.006	0.82	3.29	3.31
5	0.021	0.005	0.80	1.02	0.011	0.8	1.49	2.51
7	0.018	0.006	0.80	0.810	0.021	0.8	0.741	1.55

Table 3. Fitted electrochemical parameters from EIS data in Fig. 13. EIS parameters for Cu and Ni after injection of 20 ppm riboflavin following 3-d *D. vulgaris* pre-growth.

Incubation (min)	R_s ($k\Omega \cdot cm^2$)	Y_f ($\Omega^{-1} \cdot cm^{-2} s^n$)	n_1	R_f ($k\Omega \cdot cm^2$)	Y_{dl} ($\Omega^{-1} \cdot cm^{-2} s^n$)	n_2	R_{ct} ($k\Omega \cdot cm^2$)	$R_f + R_{ct}$ ($k\Omega \cdot cm^2$)
Cu without 20 ppm riboflavin following 3-d <i>D. vulgaris</i> pre-growth								
60	0.021	0.016	0.83	0.339	0.016	0.39	0.182	0.521
Cu after injection of 20 ppm riboflavin following 3-d <i>D. vulgaris</i> pre-growth								
0	0.018	0.014	0.38	0.101	0.083	0.87	0.412	0.523
20	0.020	0.012	0.36	0.109	0.078	0.82	0.403	0.512
40	0.022	0.084	0.89	0.429	0.014	0.32	0.072	0.501
60	0.021	0.086	0.88	0.416	0.016	0.36	0.097	0.513
Ni without 20 ppm riboflavin following 3-d <i>D. vulgaris</i> pre-growth								
60	0.012	0.002	0.69	0.02	0.006	0.85	6.81	6.83
Ni after injection of 20 ppm riboflavin following 3-d <i>D. vulgaris</i> pre-growth								
0	0.015	0.001	0.82	0.01	0.006	0.84	7.21	7.22
20	0.017	0.005	0.85	2.87	0.012	1	1.48	4.35
40	0.026	0.008	0.80	0.09	0.006	0.80	4.22	4.31
60	0.027	0.008	0.81	0.01	0.007	0.83	3.97	3.98

Table 4. Tafel parameter for Fig. 9f. Parameters from the potentiodynamic polarization curves of Cu and Ni after the 7-d incubation in sterile medium with and without 20 ppm riboflavin.

Medium	E_{corr} (V) vs. SCE	i_{corr} ($\text{A}\cdot\text{cm}^{-2}$)
Cu + sterile medium only	−0.383	1.32×10^{-7}
Cu + sterile medium + 20 ppm riboflavin	−0.354	8.96×10^{-8}
Ni + sterile medium only	−0.551	1.52×10^{-6}
Ni + sterile medium + 20 ppm riboflavin	−0.529	1.08×10^{-6}

Table 5. Tafel parameter for Fig. 14. Parameters from the potentiodynamic polarization curves of Cu and Ni after the 7-d incubation in *D. vulgaris* media with and without 20 ppm riboflavin.

Medium	E_{corr} (V) vs. SCE	i_{pass} ($\text{A}\cdot\text{cm}^{-2}$)
Cu + <i>D. vulgaris</i> only	−0.893	1.09×10^{-4}
Cu + <i>D. vulgaris</i> + 20 ppm riboflavin	−0.909	1.33×10^{-4}
Ni + <i>D. vulgaris</i> only	−0.675	3.71×10^{-5}
Ni + <i>D. vulgaris</i> + 20 ppm riboflavin	−0.751	1.02×10^{-4}