Dietary supplementation with a molybdenum-based complex is associated with higher emergence weight in Apis mellifera queens under field conditions

Précillia Cochard [1], Benjamin Poirot [1], Adrien Mignot [1], Bastien Haenel [1], Robin Azemar [1], Sébastien Floquet [2*]

* Corresponding author: sebastien.floquet@uvsq.fr

Supporting Information

Tables S1–S4. Raw experimental data used in the analyses.

Table S1. Raw data for the royal jelly production. Site: site of the experiment (1 or 2). Condition: experimental group (control or Na-Mo_2O_4-EDTA). Week: first (1) second (2) or third (3) week of experiment. Hive: unique hive identification. Cell_number: number of cell pooled for royal jelly collection. Weight:total weight of royal jelly (g).

Site	Condition	Week	Hive number	Number of cells pooled	Weight (g)
1	Control	1	261	10	5.201
1	Control	1	339	10	2.566
1	Control	1	268	10	1.876
1	Na-Mo2O4-EDTA	1	385	10	4.48
1	Na-Mo2O4-EDTA	1	164	10	1.917
1	Na-Mo2O4-EDTA	1	376	10	2.504
1	Control	2	261	10	3.903
1	Control	2	339	10	3.577
1	Control	2	268	10	4.603
1	Na-Mo2O4-EDTA	2	385	9	3.017
1	Na-Mo2O4-EDTA	2	164	9	4.107
1	Na-Mo2O4-EDTA	2	376	8	3.498
1	Control	3	261	12	4.206
1	Control	3	339	13	4.296
1	Control	3	268	10	4.498
1	Na-Mo2O4-EDTA	3	385	13	4.702
1	Na-Mo2O4-EDTA	3	164	12	4.971
1	Na-Mo2O4-EDTA	3	376	12	5.064
2	Control	1	1T	11	5.149
2	Control	1	2T	13	5.183
2	Control	1	3T	15	5.688
2	Na-Mo2O4-EDTA	1	1M	13	5.473
2	Na-Mo2O4-EDTA	1	2M	14	6.144
2	Na-Mo2O4-EDTA	1	3M	14	6.903
2	Control	2	1T	10	4.985
2	Control	2	2T	11	4.955
2	Control	2	3T	11	4.917
2	Na-Mo2O4-EDTA	2	1M	13	5.747
2	Na-Mo2O4-EDTA	2	2M	15	6.047

Site	Condition	Week	Hive number	Number of cells pooled	Weight (g)
2	Na-Mo2O4-EDTA	2	3M	15	6.107
2	Control	3	1T	14	5.402
2	Control	3	2T	13	5.238
2	Control	3	3T	15	5.934
2	Na-Mo2O4-EDTA	3	1M	11	5.044
2	Na-Mo2O4-EDTA	3	2M	11	5.141
2	Na-Mo2O4-EDTA	3	3M	13	5.561

Table S2. Royal cells length (mm) from Site 1. Condition: experimental group (control or Na-Mo2O4-EDTA). Week: first (1) or second (2) week of experiment. Hive: unique hive identification. Royal_cell_length: measured length (mm) of the royal cell.

Condition	Week	Hive number	Royal_cell_length (mm)
Control	1	261	21.64
Control	1	261	23.55
Control	1	261	16.83
Control	1	261	21.68
Control	1	261	23.84
Control	1	261	23.31
Control	1	261	22.7
Control	1	261	23.7
Control	1	261	22.02
Control	1	339	15.81
Control	1	339	13.56
Control	1	339	13.71
Control	1	339	14.11
Control	1	339	15.18
Control	1	339	17.22
Control	1	339	16.9
Control	1	339	17.1
Control	1	339	16.3
Control	1	339	15.53
Control	1	339	16.27
Control	1	339	15.79
Control	1	339	15.35
Control	1	339	16.9
Control	1	339	18.41
Control	1	339	15.49
Control	1	339	17.61
Control	1	339	15.6
Control	1	339	16.65
Control	1	339	15.39

Condition	Week	Hive number	Royal_cell_length (mm)
Control	1	339	16.2
Control	1	339	15.37
Control	1	339	17.85
Control	1	339	16.58
Control	1	339	16.18
Control	1	268	14.6
Control	1	268	15.67
Control	1	268	18.59
Control	1	268	16.68
Control	1	268	15.13
Control	1	268	14.66
Control	1	268	16.14
Control	1	268	13.2
Control	1	268	16.63
Control	1	268	15.42
Control	1	268	13.65
Control	1	268	15.26
Control	1	268	17.46
Control	1	268	16.43
Control	1	268	17.3
Control	1	268	15.52
Control	1	268	15.16
Control	1	268	12.49
Control	1	268	15.72
Control	1	268	14.65
Control	1	268	15.8
Na-Mo2O4-EDTA	1	385	19.83
Na-Mo2O4-EDTA	1	385	25.3
Na-Mo2O4-EDTA	1	385	20.06
Na-Mo2O4-EDTA	1	385	19.24
Na-Mo2O4-EDTA	1	385	19.87
Na-Mo2O4-EDTA	1	385	21.53
Na-Mo2O4-EDTA	1	385	20.2
Na-Mo2O4-EDTA	1	385	17.69
Na-Mo2O4-EDTA	1	385	17.08
Na-Mo2O4-EDTA	1	164	16.77
Na-Mo2O4-EDTA	1	164	19.05
Na-Mo2O4-EDTA	1	164	20.5
Na-Mo2O4-EDTA	1	164	17.52
Na-Mo2O4-EDTA	1	164	19.65
Na-Mo2O4-EDTA	1	164	15.29
Na-Mo2O4-EDTA	1	164	18.65
Na-Mo2O4-EDTA	1	164	14.89
Na-Mo2O4-EDTA	1	164	15.41
Na-Mo2O4-EDTA	1	164	15.85
Na-Mo2O4-EDTA	1	164	18.51

Condition	Week	Hive number	Royal_cell_length (mm)
Na-Mo2O4-EDTA	1	164	16.25
Na-Mo2O4-EDTA	1	164	19.37
Na-Mo2O4-EDTA	1	164	16.76
Na-Mo2O4-EDTA	1	164	17.69
Na-Mo2O4-EDTA	1	164	18.28
Na-Mo2O4-EDTA	1	164	15.57
Na-Mo2O4-EDTA	1	164	18.83
Na-Mo2O4-EDTA	1	164	17.87
Na-Mo2O4-EDTA	1	164	16.04
Na-Mo2O4-EDTA	1	376	22.8
Na-Mo2O4-EDTA	1	376	24.47
Na-Mo2O4-EDTA	1	376	21.51
Na-Mo2O4-EDTA	1	376	21.61
Na-Mo2O4-EDTA	1	376	22.22
Na-Mo2O4-EDTA	1	376	21.28
Na-Mo2O4-EDTA	1	376	20.59
Na-Mo2O4-EDTA	1	376	17.01
Na-Mo2O4-EDTA	1	376	21.97
Na-Mo2O4-EDTA	1	376	22.06
Control	2	261	17.23
Control	2	261	18.06
Control	2	261	18.23
Control	2	261	21.15
Control	2	261	17.57
Control	2	261	18.11
Control	2	261	18.17
Control	2	261	16.99
Control	2	261	18.63
Control	2	261	15.42
Control	2	261	17.88
Control	2	261	18.39
Control	2	261	17.12
Control	2	261	17.58
Control	2	339	17.51
Control	2	339	18.98
Control	2	339	20.28
Control	2	339	17.1
Control	2	339	17.91
Control	2	339	19.51
Control	2	339	19.43
Control	2	339	17.36
Control	2	339	16.22
Control	2	339	14.36
Control	2	339	14.11
Control	2	339	12.13
Control	2	339	12.36

Condition	Week	Hive number	Royal_cell_length (mm)
Control	2	339	13.9
Control	2	339	15.62
Control	2	339	15.37
Control	2	339	14.9
Control	2	339	15.26
Control	2	339	15.21
Control	2	339	16.6
Control	2	268	14.84
Control	2	268	18.49
Control	2	268	18.76
Control	2	268	16.58
Control	2	268	18.35
Control	2	268	19.83
Control	2	268	18.54
Control	2	268	12.58
Control	2	268	15.56
Control	2	268	14.33
Control	2	268	16.27
Control	2	268	17.11
Control	2	268	14.91
Na-Mo2O4-EDTA	2	385	14.1
Na-Mo2O4-EDTA	2	385	15.54
Na-Mo2O4-EDTA	2	385	15.71
Na-Mo2O4-EDTA	2	385	15.31
Na-Mo2O4-EDTA	2	385	15.09
Na-Mo2O4-EDTA	2	385	15.49
Na-Mo2O4-EDTA	2	385	15.51
Na-Mo2O4-EDTA	2	385	15.44
Na-Mo2O4-EDTA	2	385	14.79
Na-Mo2O4-EDTA	2	385	15.07
Na-Mo2O4-EDTA	2	385	16.75
Na-Mo2O4-EDTA	2	385	16.96
Na-Mo2O4-EDTA	2	385	18.46
Na-Mo2O4-EDTA	2	385	17.32
Na-Mo2O4-EDTA	2	164	15.68
Na-Mo2O4-EDTA	2	164	16.15
Na-Mo2O4-EDTA	2	164	15.48
Na-Mo2O4-EDTA	2	164	14.3
Na-Mo2O4-EDTA	2	164	20.87
Na-Mo2O4-EDTA	2	164	18.83
Na-Mo2O4-EDTA	2	164	19.79
Na-Mo2O4-EDTA	2	164	19.32
Na-Mo2O4-EDTA	2	164	20.47
Na-Mo2O4-EDTA	2	164	17.38
Na-Mo2O4-EDTA	2	164	17.77
Na-Mo2O4-EDTA	2	164	16.92

Condition	Week	Hive number	Royal_cell_length (mm)
Na-Mo2O4-EDTA	2	164	21.68
Na-Mo2O4-EDTA	2	376	21.21
Na-Mo2O4-EDTA	2	376	20.36
Na-Mo2O4-EDTA	2	376	22.67
Na-Mo2O4-EDTA	2	376	21.58
Na-Mo2O4-EDTA	2	376	20.9
Na-Mo2O4-EDTA	2	376	21.68
Na-Mo2O4-EDTA	2	376	20.65
Na-Mo2O4-EDTA	2	376	19.46
Na-Mo2O4-EDTA	2	376	19.38
Na-Mo2O4-EDTA	2	376	19.15

Table S3. Morphometrics data from site 1. Condition: experimental group (control or Na-Mo2O4-EDTA). Week: first (1) second (2) week of experiment. Hive: unique hive identification.

Condition	Week	Hive number	Weight (g)	Head width (mm)	Thorax width (mm)	Wings length (mm)
Control	1	261	0.242	3.96	3.84	11.60
Control	1	339	0.176	3.83	4.58	10.61
Control	2	261	0.233	3.84	3.69	10.88
Control	2	261	0.225	3.82	4.00	9.39
Control	2	261	0.235	3.91	4.12	10.78
Control	2	261	0.193	3.70	3.83	10.29
Control	2	261	0.242	3.86	3.75	10.72
Control	2	261	0.254	4.13	3.99	10.80
Control	2	339	0.231	3.72	4.11	9.82
Control	1	339	0.227	3.89	4.39	10.87
Control	2	339	0.268	3.78	3.74	11.50
Control	2	339	0.243	3.68	3.75	10.36
Control	2	339	0.19	3.41	3.57	9.31
Control	2	339	0.204	3.87	4.35	10.81
Control	2	339	0.241	3.78	3.21	10.74
Control	1	339	0.191	3.81	4.30	10.59
Control	2	268	0.221	4.09	3.68	11.00
Control	1	339	0.148	3.68	4.06	10.05
Control	2	268	0.234	4.08	4.40	11.23
Control	2	268	0.237	3.91	3.77	11.22
Control	2	268	0.255	3.83	4.06	10.65
Control	2	268	0.232	3.66	4.48	10.84
Control	1	339	0.213	3.95	5.58	11.12
Na-Mo2O4-EDTA	2	385	0.228	3.50	3.76	10.39
Na-Mo2O4-EDTA	2	385	0.217	3.86	4.27	10.34
Na-Mo2O4-EDTA	2	385	0.217	3.68	3.84	10.95

Condition	Week	Hive number	Weight (g)	Head width (mm)	Thorax width (mm)	Wings length (mm)
Control	1	339	0.185	3.85	5.05	9.82
Na-Mo2O4-EDTA	2	385	0.191	2.84	3.66	6.19
Na-Mo2O4-EDTA	2	385	0.21	3.82	4.24	10.12
Na-Mo2O4-EDTA	2	385	0.187	4.45	4.39	9.59
Na-Mo2O4-EDTA	2	385	0.206	3.85	3.51	10.35
Na-Mo2O4-EDTA	2	385	0.23	3.77	4.44	10.84
Na-Mo2O4-EDTA	2	385	0.253	4.97	3.80	11.34
Control	1	339	0.208	3.64	3.78	10.30
Na-Mo2O4-EDTA	2	164	0.217	3.78	4.20	11.11
Na-Mo2O4-EDTA	2	164	0.237	3.91	3.95	11.33
Na-Mo2O4-EDTA	2	164	0.219	4.03	4.37	10.46
Na-Mo2O4-EDTA	2	164	0.225	3.64	3.73	10.75
Na-Mo2O4-EDTA	2	164	0.223	3.86	3.38	10.97
Na-Mo2O4-EDTA	2	376	0.267	3.74	3.87	11.20
Control	1	339	0.175	3.63	4.03	10.04
Na-Mo2O4-EDTA	2	376	0.262	3.85	4.09	11.01
Na-Mo2O4-EDTA	2	376	0.209	3.66	4.12	9.90
Na-Mo2O4-EDTA	2	376	0.257	3.74	4.60	10.43
Control	1	339	0.2	3.70	4.25	10.46
Control	1	339	0.186	3.88	4.27	10.75
Control	1	261	0.233	3.66	4.45	10.10
Control	1	339	0.174	3.81	4.66	9.79
Control	1	339	0.203	3.82	4.70	9.54
Control	1	339	0.21	3.34	4.45	11.23
Control	1	339	0.192	3.57	4.55	10.36
Control	1	268	0.207	3.74	4.58	10.48
Control	1	268	0.196	3.70	4.37	10.15
Control	1	268	0.219	4.03	4.96	11.59
Control	1	268	0.203	3.76	4.87	10.74
Control	1	268	0.199	3.61	4.03	10.16
Control	1	268	0.203	3.71	4.21	10.66
Control	1	268	0.187	3.82	4.48	11.10
Control	1	268	0.222	3.52	4.12	10.55
Control	1	261	0.25	3.70	4.10	11.80
Control	1	268	0.198	3.45	4.69	8.71
Control	1	268	0.209	3.42	4.53	11.03
Control	1	268	0.247	4.00	4.42	11.53
Control	1	268	0.228	4.03	5.01	10.63
Control	1	268	0.214	3.76	4.67	10.31
Control	1	268	0.203	3.58	4.14	9.98
Control	1	268	0.193	3.62	4.15	10.55
Control	1	268	0.213	3.78	4.54	10.67
Control	1	268	0.206	3.71	4.29	10.34
Na-Mo2O4-EDTA	1	385	0.265	3.75	4.16	11.31

Condition	Week	Hive number	Weight (g)	Head width (mm)	Thorax width (mm)	Wings length (mm)
Control	1	261	0.243	4.23	4.53	11.50
Na-Mo2O4-EDTA	1	385	0.243	3.93	4.81	10.35
Na-Mo2O4-EDTA	1	385	0.224	3.42	4.67	11.25
Na-Mo2O4-EDTA	1	385	0.265	3.85	3.69	11.18
Na-Mo2O4-EDTA	1	385	0.249	4.12	4.58	11.53
Na-Mo2O4-EDTA	1	385	0.209	3.62	4.40	11.45
Na-Mo2O4-EDTA	1	385	0.266	3.70	3.73	10.72
Na-Mo2O4-EDTA	1	164	0.218	4.16	4.44	9.27
Control	1	261	0.25	3.72	4.82	11.90
Na-Mo2O4-EDTA	1	164	0.229	3.66	4.28	9.84
Na-Mo2O4-EDTA	1	164	0.261	3.72	4.39	10.64
Na-Mo2O4-EDTA	1	164	0.232	3.77	4.15	10.47
Na-Mo2O4-EDTA	1	164	0.231	3.74	4.39	10.52
Na-Mo2O4-EDTA	1	164	0.255	3.97	4.19	11.07
Na-Mo2O4-EDTA	1	164	0.247	3.64	4.36	9.36
Na-Mo2O4-EDTA	1	164	0.224	4.04	4.07	11.78
Na-Mo2O4-EDTA	1	164	0.227	3.71	4.63	10.94
Na-Mo2O4-EDTA	1	164	0.237	3.79	4.35	11.42
Na-Mo2O4-EDTA	1	164	0.21	3.68	3.91	10.25
Control	1	261	0.239	3.69	4.03	11.40
Na-Mo2O4-EDTA	1	164	0.242	3.86	4.67	11.18
Na-Mo2O4-EDTA	1	164	0.24	3.98	3.97	11.94
Na-Mo2O4-EDTA	1	164	0.232	3.88	4.27	11.53
Na-Mo2O4-EDTA	1	164	0.205	3.79	3.92	11.20
Na-Mo2O4-EDTA	1	164	0.22	3.89	4.51	11.71
Na-Mo2O4-EDTA	1	164	0.222	3.90	4.41	11.40
Na-Mo2O4-EDTA	1	164	0.232	3.81	4.32	10.75
Na-Mo2O4-EDTA	1	164	0.235	4.29	4.11	11.15
Na-Mo2O4-EDTA	1	376	0.194	3.86	4.65	9.98
Na-Mo2O4-EDTA	1	376	0.22	3.06	4.41	11.10
Na-Mo2O4-EDTA	1	376	0.235	3.70	4.39	10.90
Na-Mo2O4-EDTA	1	376	0.212	3.32	4.14	10.31
Na-Mo2O4-EDTA	1	376	0.201	3.92	4.62	11.58
Na-Mo2O4-EDTA	1	376	0.258	3.92	4.41	10.23
Na-Mo2O4-EDTA	1	376	0.205	3.94	5.16	10.75
Control	2	261	0.236	3.99	4.06	10.40
Control	2	261	0.213	3.59	3.70	11.09
Control	2	261	0.211	3.84	3.66	10.98
Control	2	261	0.229	3.65	4.19	10.87

Table S4. Queen emergence weight data from site 2. Condition: experimental group (Control or Na-Mo_2O_4-EDTA). Week: first (1), second (2), or third (3) experimental week. Hive: unique hive identification. Weight: queen emergence weight (g).

Condition	Week	Hive number	Weight (g)
Control	1	1T	0.204
Control	1	1T	0.202
Control	1	1T	0.198
Control	1	1T	0.200
Control	1	1T	0.188
Control	1	1T	0.196
Control	1	1T	0.202
Control	1	1T	0.202
Control	1	1T	0.201
Control	1	1T	0.19
Control	1	1T	0.197
Control	1	1T	0.198
Control	1	1T	0.201
Control	1	2T	0.195
Control	1	2T	0.198
Control	1	2T	0.196
Control	1	2T	0.202
Control	1	2T	0.198
Control	1	2T	0.204
Control	1	2T	0.199
Control	1	2T	0.194
Control	1	2T	0.201
Control	1	2T	0.205
Control	1	2T	0.199
Control	1	2T	0.203
Control	1	3T	0.196
Control	1	3T	0.202
Control	1	3T	0.207
Control	1	3T	0.204
Control	1	3T	0.195
Control	1	3T	0.205
Control	1	3T	0.200
Control	1	3T	0.203
Control	1	3T	0.194
Control	1	3T	0.196
Control	1	3T	0.200
Control	1	3T	0.202
Control	1	3T	0.210
Control	2	1T	0.198
Control	2	1T	0.204
Control	2	1T	0.195
Control	2	1T	0.194

Condition	Week	Hive number	Weight (g)
Control	2	1T	0.192
Control	2	1T	0.197
Control	2	1T	0.202
Control	2	1T	0.195
Control	2	1T	0.200
Control	2	1T	0.194
Control	2	1T	0.196
Control	2	2T	0.200
Control	2	2T	0.198
Control	2	2T	0.195
Control	2	2T	0.201
Control	2	2T	0.210
Control	2	2T	0.186
Control	2	2T	0.190
Control	2	2T	0.187
Control	2	2T	0.201
Control	2	2T	0.204
Control	2	2T	0.195
Control	2	2T	0.198
Control	2	3T	0.204
Control	2	3T	0.189
Control	2	3T	0.192
Control	2	3T	0.201
Control	2	3T	0.190
Control	2	3T	0.196
Control	2	3T	0.202
Control	2	3T	0.210
Control	2	3T	0.205
Control	2	3T	0.294
Control	2	3T	0.200
Control	2	3T	0.198
Control	2	3T	0.195
Control	3	1T	0.195
Control	3	1T	0.194
Control	3	1T	0.195
Control	3	1T	0.200
Control	3	1T	0.198
Control	3	1T	0.196
Control	3	1T	0.190
Control	3	1T	0.196
Control	3	1T	0.200
Control	3	1T	0.202
Control	3	1T	0.204
Control	3	1T	0.200
Control	3	2T	0.198
Control	3	2T	0.196

Condition	Week	Hive number	Weight (g)
Control	3	2T	0.196
Control	3	2T	0.196
Control	3	2T	0.198
Control	3	2T	0.198
Control	3	2T	0.195
Control	3	2T	0.200
Control	3	2T	0.198
Control	3	3T	0.195
Control	3	3T	0.200
Control	3	3T	0.200
Control	3	3T	0.202
Control	3	3T	0.196
Control	3	3T	0.198
Control	3	3T	0.185
Control	3	3T	0.188
Control	3	3T	0.195
Control	3	3T	0.202
Control	3	3T	0.200
Na-Mo2O4-EDTA	1	1M	0.205
Na-Mo2O4-EDTA	1	1M	0.198
Na-Mo2O4-EDTA	1	1M	0.208
Na-Mo2O4-EDTA	1	1M	0.205
Na-Mo2O4-EDTA	1	1M	0.205
Na-Mo2O4-EDTA	1	1M	0.212
Na-Mo2O4-EDTA	1	1M	0.208
Na-Mo2O4-EDTA	1	1M	0.210
Na-Mo2O4-EDTA	1	1M	0.208
Na-Mo2O4-EDTA	1	1M	0.210
Na-Mo2O4-EDTA	1	1M	0.212
Na-Mo2O4-EDTA	1	1M	0.210
Na-Mo2O4-EDTA	1	1M	0.214
Na-Mo2O4-EDTA	1	1M	0.205
Na-Mo2O4-EDTA	1	2M	0.210
Na-Mo2O4-EDTA	1	2M	0.205
Na-Mo2O4-EDTA	1	2M	0.208
Na-Mo2O4-EDTA	1	2M	0.212
Na-Mo2O4-EDTA	1	2M	0.202
Na-Mo2O4-EDTA	1	2M	0.204
Na-Mo2O4-EDTA	1	2M	0.215
Na-Mo2O4-EDTA	1	2M	0.205
Na-Mo2O4-EDTA	1	2M	0.21
Na-Mo2O4-EDTA	1	2M	0.215
Na-Mo2O4-EDTA	1	2M	0.218
Na-Mo2O4-EDTA	1	2M	0.208
Na-Mo2O4-EDTA	1	3M	0.198
Na-Mo2O4-EDTA	1	3M	0.206

Condition	Week	Hive number	Weight (g)
Na-Mo2O4-EDTA	1	3M	0.212
Na-Mo2O4-EDTA	1	3M	0.208
Na-Mo2O4-EDTA	1	3M	0.206
Na-Mo2O4-EDTA	1	3M	0.205
Na-Mo2O4-EDTA	1	3M	0.213
Na-Mo2O4-EDTA	1	3M	0.215
Na-Mo2O4-EDTA	1	3M	0.208
Na-Mo2O4-EDTA	1	3M	0.213
Na-Mo2O4-EDTA	1	3M	0.215
Na-Mo2O4-EDTA	1	3M	0.210
Na-Mo2O4-EDTA	1	3M	0.210
Na-Mo2O4-EDTA	1	3M	0.208
Na-Mo2O4-EDTA	2	1M	0.210
Na-Mo2O4-EDTA	2	1M	0.214
Na-Mo2O4-EDTA	2	1M	0.210
Na-Mo2O4-EDTA	2	1M	0.215
Na-Mo2O4-EDTA	2	1M	0.212
Na-Mo2O4-EDTA	2	1M	0.210
Na-Mo2O4-EDTA	2	1M	0.205
Na-Mo2O4-EDTA	2	1M	0.208
Na-Mo2O4-EDTA	2	1M	0.208
Na-Mo2O4-EDTA	2	1M	0.210
Na-Mo2O4-EDTA	2	1M	0.208
Na-Mo2O4-EDTA	2	1M	0.204
Na-Mo2O4-EDTA	2	2M	0.212
Na-Mo2O4-EDTA	2	2M	0.210
Na-Mo2O4-EDTA	2	2M	0.206
Na-Mo2O4-EDTA	2	2M	0.215
Na-Mo2O4-EDTA	2	2M	0.204
Na-Mo2O4-EDTA	2	2M	0.206
Na-Mo2O4-EDTA	2	2M	0.208
Na-Mo2O4-EDTA	2	2M	0.21
Na-Mo2O4-EDTA	2	2M	0.208
Na-Mo2O4-EDTA	2	2M	0.206
Na-Mo2O4-EDTA	2	2M	0.212
Na-Mo2O4-EDTA	2	2M	0.208
Na-Mo2O4-EDTA	2	2M	0.210
Na-Mo2O4-EDTA	2	3M	0.215
Na-Mo2O4-EDTA	2	3M	0.21
Na-Mo2O4-EDTA	2	3M	0.214
Na-Mo2O4-EDTA	2	3M	0.216
Na-Mo2O4-EDTA	2	3M	0.210
Na-Mo2O4-EDTA	2	3M	0.208
Na-Mo2O4-EDTA	2	3M	0.21
Na-Mo2O4-EDTA	2	3M	0.206
Na-Mo2O4-EDTA	2	3M	0.208

Condition	Week	Hive number	Weight (g)
Na-Mo2O4-EDTA	2	3M	0.210
Na-Mo2O4-EDTA	2	3M	0.212
Na-Mo2O4-EDTA	2	3M	0.205
Na-Mo2O4-EDTA	2	3M	0.202
Na-Mo2O4-EDTA	3	1M	0.206
Na-Mo2O4-EDTA	3	1M	0.212
Na-Mo2O4-EDTA	3	1M	0.21
Na-Mo2O4-EDTA	3	1M	0.198
Na-Mo2O4-EDTA	3	1M	0.210
Na-Mo2O4-EDTA	3	1M	0.200
Na-Mo2O4-EDTA	3	1M	0.215
Na-Mo2O4-EDTA	3	1M	0.202
Na-Mo2O4-EDTA	3	1M	0.210
Na-Mo2O4-EDTA	3	1M	0.212
Na-Mo2O4-EDTA	3	1M	0.212
Na-Mo2O4-EDTA	3	1M	0.214
Na-Mo2O4-EDTA	3	1M	0.212
Na-Mo2O4-EDTA	3	1M	0.215
Na-Mo2O4-EDTA	3	2M	0.214
Na-Mo2O4-EDTA	3	2M	0.215
Na-Mo2O4-EDTA	3	2M	0.208
Na-Mo2O4-EDTA	3	2M	0.205
Na-Mo2O4-EDTA	3	2M	0.210
Na-Mo2O4-EDTA	3	2M	0.202
Na-Mo2O4-EDTA	3	2M	0.208
Na-Mo2O4-EDTA	3	2M	0.21
Na-Mo2O4-EDTA	3	2M	0.218
Na-Mo2O4-EDTA	3	2M	0.210
Na-Mo2O4-EDTA	3	2M	0.210
Na-Mo2O4-EDTA	3	2M	0.214
Na-Mo2O4-EDTA	3	2M	0.21
Na-Mo2O4-EDTA	3	3M	0.216
Na-Mo2O4-EDTA	3	3M	0.198
Na-Mo2O4-EDTA	3	3M	0.215
Na-Mo2O4-EDTA	3	3M	0.210
Na-Mo2O4-EDTA	3	3M	0.208
Na-Mo2O4-EDTA	3	3M	0.216
Na-Mo2O4-EDTA	3	3M	0.215
Na-Mo2O4-EDTA	3	3M	0.212
Na-Mo2O4-EDTA	3	3M	0.212
Na-Mo2O4-EDTA	3	3M	0.208
Na-Mo2O4-EDTA	3	3M	0.212
Na-Mo2O4-EDTA	3	3M	0.21