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Research paper

Persistence of TNT Traces in the Presence of Compounds from Battery Cells

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Table S1. Change in TNT concentration at room temperature and at the temperature of boiling methanol

Time [min]	TNT concentration [%]
Room temperature	
0	0.1000
5	0.0975
10	0.0960
30	0.0913
45	0.0885
Temperature of boiling methanol	
0	0.1000
5	0.0882
10	0.0802
30	0.0738
45	0.0724
60	0.0710

Table S2. Change in TNT concentration as a function of extraction time, for a mass of active substances from an alkaline Duracell Ultra M3 battery and a Leclanché cell at the temperature of boiling methanol

Time [min]	TNT concentration [%]
Leclanché cell	
0	0.1000
1	0.0451
3	0.0201
6	0.0287
10	0.0310
15	0.0311
20	0.0315
30	0.0320
45	0.0314
60	0.0304
Alkaline battery	
0	0.1000
1	0.0268
3	0.0105
6	0.0054
10	0.0027
15	0.0016
20	0.0008
30	0.0004
45	0.0000

Table S3. Change in TNT concentration as a function of extraction time for a mass of active substances from an alkaline Duracell Ultra M3 battery and a Leclanché cell at room temperature

Time [min]	TNT concentration [%]
Leclanché cell	
0	0.1000
2	0.0609
4	0.0369
6	0.0295
10	0.0261
15	0.0268
25	0.0316
35	0.0338
45	0.0341
60	0.0340
Alkaline battery	
0	0.100
2	0.0533
4	0.0253
6	0.0190
10	0.0184
15	0.0200
25	0.0202
35	0.0172
45	0.0149
60	0.0121

Table S4. Change in TNT concentration as a function of extraction time in the “fast” and “slow” methods with the addition of hydrochloric acid, for a mass of active substances from an alkaline Duracell Ultra M3 battery

Time [min]	TNT concentration [%]
Temperature of boiling methanol	
0	0.1000
1	0.0371
3	0.0191
6	0.0237
10	0.0320
15	0.0330
20	0.0331
30	0.0332
45	0.0328
60	0.0324
Room temperature	
0	0.1000
2	0.0533
4	0.0253
6	0.0190
10	0.0184
15	0.0200
25	0.0202
35	0.0172
45	0.0149
60	0.0121

Table S5. Change in TNT concentration as a function of extraction time at ambient temperature with the addition of hydrochloric acid in methanol solution for a mass of active substances from an alkaline Duracell Ultra M3 battery and a Leclanché cell

Time [min]	TNT concentration [%]
Alkaline battery	
0	0.1000
2	0.0583
4	0.0313
6	0.0228
10	0.0186
15	0.0193
25	0.0245
35	0.0304
45	0.0321
60	0.0321
Leclanché cell	
0	0.1000
2	0.0609
4	0.0369
6	0.0285
10	0.0261
15	0.0268
25	0.0316
35	0.0338
45	0.0341
60	0.0340

Received: August 20, 2019

First published online: June 26, 2020