

**Conditions**

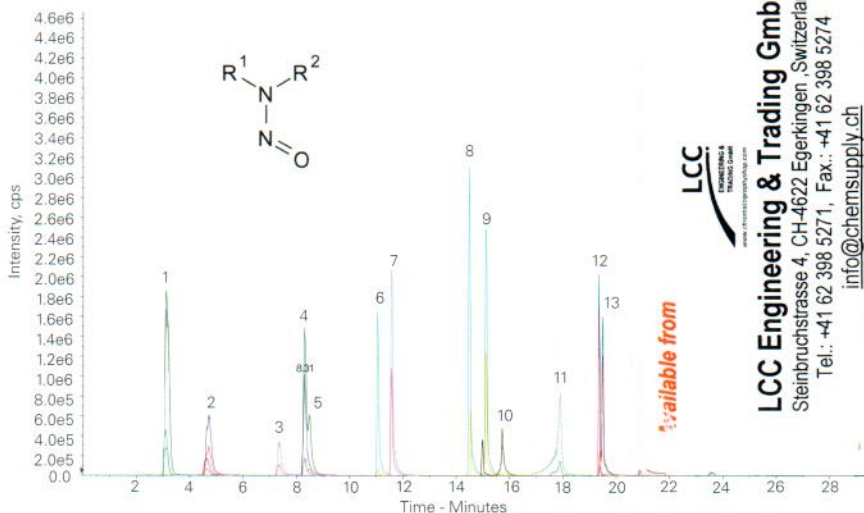
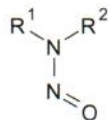
**Column:** ACE Excel 2 C18-PFP  
**Dimensions:** 150 x 3.0 mm  
**Part Number:** EXL-1010-1503U  
**Mobile Phase:** A: 0.1% formic acid in H<sub>2</sub>O  
 B: 0.1% formic acid in MeOH  
**Gradient:**

Time (mins)	%B
0.0	5
1.0	5
10.0	65
14.0	65
15.0	90
20.0	90
21.0	5
30.0	5

**Flow Rate:** 0.35 mL/min  
**Injection:** 20 µL  
**Temperature:** 40 °C  
**Sample Temperature:** 4 °C  
**Detection:** Applied Biosystems 4000 Q-Trap MS  
 Source: APCI (positive mode)  
 Collision energy: 10-30 V  
 Source temperature: 300 °C

**Analytes**

- |   |  |  |
|---|--|--|
| 1. NDELA<br>(m/z 135.2 → 74.2, 135.2 → 104.2) | 6. NDEA<br>(m/z 103.1 → 75.2, 103.1 → 47.2)    | 11. NEPhA<br>(m/z 151.1 → 77.1, 151.1 → 95.3)  |
| 2. NDMA<br>(m/z 74.9 → 43.2, 74.9 → 58.2)     | 7. NPIP<br>(m/z 115.1 → 69.1, 115.1 → 41.2)    | 12. NDIBA<br>(m/z 159.3 → 57.2, 159.3 → 103.2) |
| 3. Nmorph<br>(m/z 117.1 → 86.3, 117.1 → 73.3) | 8. NDnPA<br>(m/z 131.2 → 89.2, 131.2 → 43.3)   | 13. NDnBA<br>(m/z 159.3 → 103.2, 159.3 → 57.2) |
| 4. Npyrr<br>(m/z 101.2 → 55.3, 101.2 → 59.2)  | 9. NdiPA<br>(m/z 131.2 → 89.2, 131.2 → 43.3)   | 14. NDBzA<br>(m/z 227.2 → 91.1, 227.2 → 181.2) |
| 5. NMEA<br>(m/z 89.2 → 61.1, 89.2 → 43.3)     | 10. NMPhA<br>(m/z 137.2 → 107.2, 137.2 → 66.1) |  |



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European Union EN 71-12 Safety of Toys:  
 N-Nitrosamines and N-nitrosatable substances e.g.  
 Analysis of nitrosamines in balloon extracts

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**Non-Steroidal Anti-Inflammatory Drugs (I)**

Application #AN1210

**Conditions**

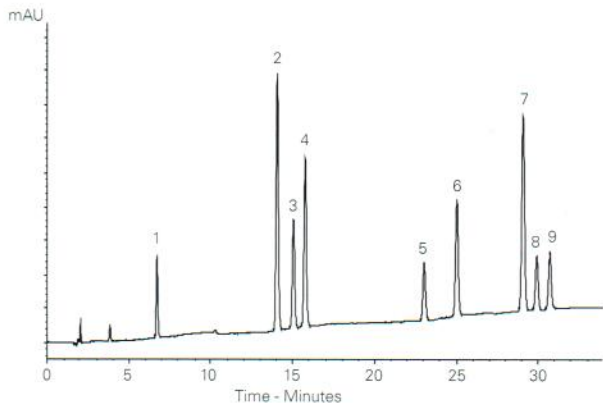
**Column:** ACE 3 C18-AR  
**Dimensions:** 150 x 4.6 mm  
**Part Number:** ACE-119-1546  
**Mobile Phase:** A: 0.1% formic acid in H<sub>2</sub>O  
 B: 0.1% formic acid in MeOH  
**Gradient:**

Time (mins)	%B
0	52
28	74
33	74
38	52
48	52

**Flow Rate:** 1 mL/min  
**Injection:** 5 µL  
**Temperature:** 40 °C  
**Detection:** UV, 254 nm

**Analytes**

1. Bendroflumethiazide
2. Ketoprofen
3. Naproxen
4. Sulindac
5. Ibuprofen
6. Diclofenac
7. Indomethacin
8. Meclofenamic acid
9. Mefenamic acid



**Non-Steroidal Anti-Inflammatory Drugs (II)**

Application #AN1220

**Conditions**

**Column:** ACE Excel 5 SuperC18  
**Dimensions:** 150 x 4.6 mm  
**Part Number:** EXL-1211-1546U  
**Mobile Phase:** A: 0.1% formic acid in H<sub>2</sub>O  
 B: 0.1% formic acid in MeCN  
**Gradient:**

Time (mins)	%B
0	20
20	70
25	70
36	20

**Flow Rate:** 1 mL/min  
**Injection:** 10 µL  
**Temperature:** 40 °C  
**Detection:** UV, 254 nm

**Analytes**

1. Aspirin
2. Phenacetin
3. Sulindac
4. Tolmetin
5. Naproxen
6. Nimesulide
7. Flurbiprofen
8. Diclofenac
9. Phenylbutazone
10. Meclofenamic acid

