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Antihistamines help treating hay fever: For allergy sufferers spring always arrives too early

At this week's Sechseläuten - the biggest spring festival in Switzerland - once again Zürich bid farewell to the long and cold winter nights. The Böögg's hour came after a long 20 minutes and 39 seconds. This indicates a cold and rainy summer as the time between the lighting of the pyre and the explosion of the Böögg's head is said to be indicative of what the coming summer is going to be like.

This may belong in the land of superstition but spring has certainly arrived. Good news for sunseekers, bad news for allergy sufferers. With the rising temperature, the pollen concentration increases, which causes discomfort in form of hay fever affecting one in six people. In the best of cases one suffers «only» from sneezing, congested nose and watering, itchy eyes. In the extreme, however, hay fever may be the cause of asthma.

Antihistamines, which are used for the treatment of allergies such as hay fever as well as for the symptomatic treatment of motion sickness, weaken the impact of the body's own messenger, histamine, which plays a central part in allergic reactions. The individual components of these therapeutically used substances can be perfectly analysed with the HALO-5® C18 column. With this very efficient column, which is based on the so-called Fused Core Technology, various analytes can be analysed fast and with high resolution. The flow rate is as efficient as on a standard sub-3 µm column. The back-pressure, however is far lower, which allows the use of the HALO-5 column on standard HPLC equipment.

Aside from the HALO column, the iV2µ-Vial for optimized micro-sampling, an in-house development, is ideal for this kind of analysis. We recommend you use it in combination with the ms-Pure caps. The non-pigmented silicone/PTFE septum of these caps is 60 % cleaner than standard red/white septums on the market. This decreases contamination of the sample with extractable substances from the septum. Find more information on these products on www.infochroma.ch.

Last but not least: check out our "Special's Corner" where you find stock clearance items at great value. Look under: www.infochroma.ch/de/aktionen.

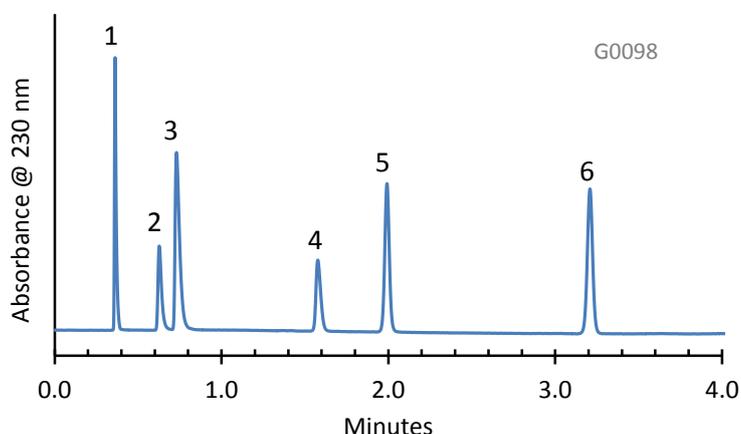
We wish you a splendid and hay fever free spring and hope, that despite work, you will find the time to take some coffee breaks in the open-air. With our fun coffee mugs for chemistry fans, you have the true accessory for those breaks. Check them out under www.chemoline.ch/kaffeebecher.html.

best regards
your infochroma ag

HALO | Fused-Core® Particle Technology

Application Note: 114-AH

Separation of Antihistamines on HALO-5 C18



PEAK IDENTITIES:

1. Maleic acid
2. Pylramine
3. Chlorpheniramine
4. Cetirizine
5. Fexofenadine
6. Loratadine

TEST CONDITIONS:

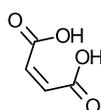
Column: 3.0 x 100 mm, HALO-5 C18
Part Number: 95813-602
Mobile Phase: A/B: 50/50 to start.
A = 0.02 M Phosphate buffer, pH=2.6
B = Methanol
Gradient

Time	%B
0.0	50
0.5	50
2.5	75
4.0	75

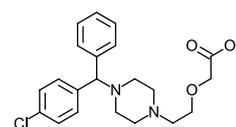
Flow Rate: 1.0 mL/min.
Pressure: 191 Bar
Temperature: 40°C
Detection: UV 230 nm, VWD
Injection Volume: 1.0 µL
Sample Solvent: 80% Methanol in water
Response Time: 0.02 sec.
Flow Cell: 2.5 µL semi-micro
LC System: Shimadzu Prominence UFLC XR
ECV: ~14 µL

These six antihistamines can be rapidly separated on a HALO-5 Fused-Core C18 column in under 4 minutes.

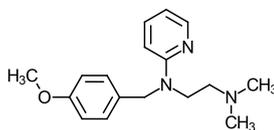
STRUCTURES:



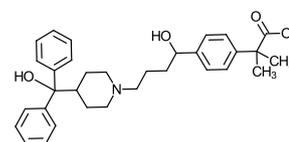
Maleic acid



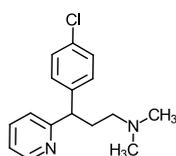
Cetirizine



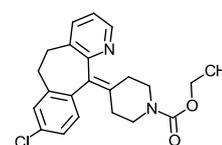
Pylramine



Fexofenadine



Chlorpheniramine



Loratadine

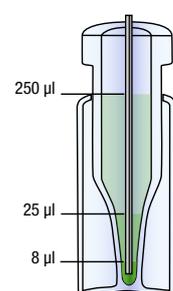


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The 250 µl insert vial iV2µ - also ideal for volatile samples and microractions

Like the µ-vial, the iV2µ-Vial has the insert integrated into the body of a 2 ml vial, but the insert itself is closed with the cap. Because of the directly closed 250 µl insert, the iV2µ-Vial is suitable for use with volatile samples, since no sample vapour escapes into the hollow space between vial and insert. With our specially developed one-station

machine we can draw the insert substantially longer and more narrow than was possible until now. Therefore the iV2µ-Vial can be used on autosamplers with side port needle or smallest sample volumes of a few micro litres.



- ☛ **insert itself closed with cap**
 no sample escapes into the space between vial and insert, ideal for micro reactions suitable for volatile samples and lyophilisation
- ☛ **long narrow pointed insert**
 intended for syringe needles with side hole very low dead volume (< 5µl)
- ☛ **established design**
 stand alone, no support needed and corresponds with 12 x 32 mm standard sturdy design

available iV2µ-Vial, pack size 500 pcs.

Agilent compatible screw iV2µ-Vial



8004-HP-H/iV2µ clear glass CHF 102.00/100 pcs.
8004-HP-D/iV2µ amber glass CHF 109.00/100 pcs.

Crimp iV2µ-Vial



8002-CV-H/iV2µ clear glass CHF 95.00/100 pcs.
8002-CV-D/iV2µ amber glass CHF 98.00/100 pcs.

Snap/Crimp iV2µ-Vial



8002-SC-H/iV2µ clear glass CHF 95.00/100 pcs.
8002-SC-D/iV2µ amber glass CHF 98.00/100 pcs.

ms-Pure septum: non-pigmented silicone septum



- ☛ non-pigmented silicone elastomer of highest quality, low bleed
- ☛ excellent re-seal ability, resists coring
- ☛ intended for multiple injections

available caps with ms-Pure septum, pack size 500 pcs.

Agilent compatible screw cap, blue

G194B-SKFK10/09 CHF 29.50/100 pcs.

Aluminium crimp cap, red

G003-ACG-SKFK10 CHF 18.50/100 pcs.

Snap cap, blue

G003-SCB-SKFK10 CHF 21.50/100 pcs.

All caps available in various colours;
see: www.infochroma.ch/eng/vials/ms_pure

from chemoline.ch - coffee mugs

Enjoy a coffee break in the warming spring sun and be cool with the fun coffee mugs from
<http://www.chemoline.ch/kaffeebecher.html>

57-0067 «Pause (Leitz)» CHF 11.80/pcs.
57-0057 Periodic system of the elements (PSE) CHF 17.50/pcs.



Prices excl. VAT., excl. postage and packaging CHF 17.50