

*Highly purified allergens:*

## **BMF 47: European standard CEN/TC 347/WG 4N 19**

### **24 Suspected allergens in analytical purity**

Safe and accurate analysis of priority suspected allergens has been hampered by the lack of pure and reliable standards. Many of the known allergens have only been available as mixtures of isomers or impure compounds, and purities stated by various fine chemical suppliers has proven to be unreliable for most of these substances.

Chiron has purified each individual allergen in order to obtain a reliable standard mixture of the 24 suspected compounds as suggested in the new CEN/TC347/WG 4N 19 method, altogether 26 isomers.



**Chiron AS now offers highly purified substances (>99%) for allergen analysis and toxicological studies, as well as a convenient all-in-one mixture.**

**24 Suspected Allergens in analytical purity are presented in table below and on next page:**

Chiron No.	Product	Synonym	CAS, isomer mix	CAS, pure isomer
9081.14	Amylcinnamic alcohol	Buxinol	101-85-9	
9086.14	(2E)-Amylcinnamic aldehyde		122-40-7	78605-96-6
9087.8	Anisyl alcohol	4-Methoxybenzyl alcohol	105-13-5	
3843.7	Benzyl alcohol		100-51-6	
2053.14	Benzyl benzoate		120-51-4	
9089.16	(2E)-Benzyl cinnamate		103-41-3	78277-23-3
9091.14	Benzyl salicylate		118-58-1	
9092.14	Butylphenyl methylpropional	Lilial	80-54-6	
9094.9	(2E)-Cinnamic alcohol		104-54-1	4407-36-7
9097.9	(2E)-Cinnamic aldehyde		104-55-2	14371-10-9
9100.10	(Z)-Citral (96-97%)	Neral	5392-40-5	106-26-3
9101.10	(E)-Citral	Geranial	5392-40-5	141-27-5
9102.10	Citronellol		106-22-9	
3867.9	Coumarin	1,2-Benzophenone	91-64-5	
3900.10	Eugenol		97-53-0	

List continues on next page.



**24 Suspected Allergens , list continued:**

Chiron No.	Product	Synonym	CAS, isomer mix	CAS, pure isomer
9104.15	(2E,6E)-Farnesol		4602-84-0	106-28-5
9108.10	Geraniol	(2E)-3,7-Dimethyl-2,6-octadien-1-ol	624-15-7	106-24-1
9109.10	Nerol	(2Z)-3,7-Dimethyl-2,6-octadien-1-ol	624-15-7	106-25-2
9111.15	(2E)-Hexylcinnamic aldehyde	Jasmonal®	101-86-0	165184-98-5
9113.10	Hydroxycitronellal		107-75-5	
9114.13	Hydroxyisohexyl-3-cyclohexene carboxaldehyde	Lyrall	31906-04-4	
9116.10	(1E)-Isoeugenol		97-54-1	5932-68-3
9120.14	(3Z)- $\alpha$ -Isomethyl ionone		127-51-5	13743-21-0
9121.10	Limonene		5989-27-5	
9122.10	Linalool		78-70-6	
9123.9	Methyl 2-octynoate	Folione®	111-12-6	

**24 Suspected Allergens in analytical purity in one mixture:**

Chiron No.	Product	Description	Concentration
S-4649-100-EA	24 Suspected Allergens, European Standard CEN/TC 347/WG 4N 19	26 purified isomers/ compounds (all in list above)	100 $\mu$ g/mL each in ethyl acetate

**Internal Standards used in the CEN-method:**

Chiron No.	Product	CAS, isomer mix
9027.6-K-IO	1,4-Dibromobenzene	106-37-6
3096.12-K-IO	4,4'-Dibromobiphenyl	92-86-4

**Deuterated Internal standards:**

Chiron No.	Product	CAS, isomer mix
9023.7-K-IO	Benzylalcohol-d7	71258-23-6
9024.14-K-IO	Benzyl-d5 benzoate	347840-01-1
9025.16-100-IO	Benzyl-d5 cinnamate, E-isomer	347840-02-2
9026.14-K-IO	Benzyl salicylate-d4 (Benzyl 2-hydroxybenzoate-3,4,5,6-d4)	118-58-1 of unlabelled
3868.9-K-ME	Coumarin-d4	185056-83-1
9325.10-K-ME	Linalool-d3 (vinyl-d3)	78-70-3 of unlabelled

Neat material for toxicological tests are available upon request.

Single components solution also available.

Please request for other isomers.

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