

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 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:

Chiron No.	Name	Description	CAS, isomer mix	CAS, pure isomer
9934.14	Amylcinnamic alcohol ^{A,B}	Buxinol	101-85-9	
9086.14	(2E)-Amylcinnamic aldehyde		122-40-7	78605-96-6
9087.8	Anisyl alcohol ^A	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 ^A		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-Benzopyrone		91-64-5
3900.10	Eugenol			97-53-0

List continues on next page.



24 Suspected Allergens , list continued:

Chiron No.	Name	Synonym	CAS, isomer mix	CAS, pure isomer
9104.15	(2E,6E)-Farnesol ^A		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	Lyral		31906-04-4
9116.10	(1E)-Isoeugenol		97-54-1	5932-68-3
9935.14	α -Isomethyl ionone ^B		127-51-5	
9121.10	Limonene			5989-27-5
9122.10	Linalool		78-70-6	
9123.9	Methyl 2-octynoate	Folione®		111-12-6

(^A qualitative. not quantitative, ^B one pure isomer, stereo chemistry not specified)

24 Suspected Allergens in analytical purity in one mixture:

Chiron No.	Name	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 μ g/mL each in ethyl acetate

Internal Standards used in the CEN-method:

Chiron No.	Name	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.	Name	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 salisylate-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 inquire.
Please request for other isomers.

