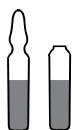
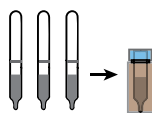


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**X** A conventional ampule will lose quality/concentration over time after breaking open



**✓** Microampules allow injections from a fresh solution after one is used

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- Multiple methods provided
- Pre-mixed, ready to use
- No preparation required.
- No pipetting/liquid transfer required.
- Extra labels in the box to ensure complete tracing

## Applications

Human metabolomics

Plant metabolomics

Microbiome analysis

Essential oil analysis

Coffee and beverage analysis

Wine and beer analysis

Cannabis analysis

Aroma and fragrance analysis

Our digital specification sheet and certificate of analysis provides all the information you need about each and every compound in the mixes including the names, CAS#, concentration, molecular formula, molecular weight, retention times, spectra, methods, columns, SDS, etc.

We provide additional methods through the digital specification sheet, and we share our experience with you to achieve the best results through our strong support service.

The Library is focused on food and aroma analysis with 258 FEMA FLAVORS indexed molecules; however, most of the flavors and aromas that we developed a sense for, come from natural resources. 305 of the molecules included are indexed in HMDB as identified or quantified in human biofluids which are produced either endogenously or through consumption of food.

Please visit [www.metasci.ca/standard-mixtures](http://www.metasci.ca/standard-mixtures) to find more about our standard mixtures kits

## List of molecules V1.0.408

1. (-)-Isopulegol	80. $\alpha$ -Terpineol	164. 2-Dodecanal	246. 2,3-Dimethylphenol	328. Benzyl propionate
2. (-)- $\beta$ -Pinene	81. Neryl acetate	165. 1-Methoxy-2-methylbenzene	247. 2,4,6-Trimethylphenol	329. 1-Phenylethyl acetate
3. (-)-Fenchone	82. $\alpha$ -Humulene	166. 2'-Hydroxyacetophenone	248. Thymol methyl ether	330. Cinnamyl isobutyrate
4. Linalyl acetate	83. (+)-Cedrol	167. 4-Acetyltoluene	249. 4-Ethylguaiaicol	331. Cinnamyl butyrate
5. (S)-(-)- $\beta$ -Citronellol	84. (-)- $\alpha$ -Bisabolol	168. 2',4'-Dimethylacetophenone	250. 2-Phenylphenol	332. Vanillyl alcohol
6. Citronellyl acetate	85. Isophytol	169. 2-Methoxyacetophenone	251. Phloroglucinol	333. Piperonyl acetate
7. Guaiazulene	86. Tiglic acid	170. 2,6-Dimethoxyphenol	252. 2,6-Dimethoxy-4-methylphenol	334. 3,4,5-Trimethoxybenzyl alcohol
8. Parthenolide	87. 1,4-Cineole	171. 4-Acetyresorcinol	253. Acetophenone	335. Benzyl isovalerate
9. Nerol	88. Dihydrolinalool	172. Anisole	254. Propiophenone	336. Benzyl benzoate
10. (R)-(+)-Limonene	89. (-)-Verbenone	173. Catechol	255. Butyrophenone	337. Benzyl butyrate
11. (+)-Camphor	90. Geranyl acetate	174. 4-Allylanisole	256. Valerophenone	338. Cinnamyl benzoate
12. (1R,2R,5R)-(+)-2-Hydroxy-3-pinane	91. (+)- $\delta$ -Cadinene	175. 4-n-propylphenol	257. Hexanophenone	339. Cinnamyl isovalerate
13. Tetrahydrolinalool	92. trans,trans-Farnesol	176. Carvacrol	258. Heptanophenone	340. Cinnamyl acetate
14. Camphorquinone	93. Thymoquinone	177. 1,3,5-Trimethoxybenzene	259. Octanophenone	341. Cinnamyl alcohol
15. Santonin	94. Isovaleric acid	178. Acetovanillone	260. Nonanophenone	342. Cinnamyl cinnamate
16. 3,3-Dimethylacrylic acid	95. 1-Butanol	179. Vanitrope	261. N-Decanophenone	343. Benzyl alcohol
17. Isoamyl alcohol	96. 1-Pentanol	180. Asarone	262. Undecanophenone	344. Butylated hydroxytoluene
18. (+)- $\beta$ -Citronellene	97. 1-Hexanol	181. m-Cresol	263. Dodecanophenone	345. p-Tolualdehyde
19. L-Menthone	98. 1-Heptanol	182. 4-Ethylphenol	264. 2,5-Dimethylfuran	346. 2,4-Dimethylbenzaldehyde
20. (1S)-(+)-3-Carene	99. 1-Octanol	183. 4-Methylguaiaicol	265. 2-Propylfuran	347. p-Anisaldehyde
21. Bornyl acetate	100. 1-Nonanol	184. Ethyl salicylate	266. Furfuryl alcohol	348. 4-Ethoxybenzaldehyde
22. Methyl Jasmonate (mixture of isomers)	101. 1-Decanol	185. 4-Methoxyacetophenone	267. 2-Butylfuran	349. Vanillin
23. Linalyl propionate	102. 1-Undecanol	186. Piceol	268. Methyl 2-furoate	350. Veratraldehyde
24. Sclareolide	103. 1-Dodecanol	187. Elemicin	269. Furfuryl propionate	351. 3,4-Dihydroxybenzaldehyde
25. Sabinene Hydrate	104. 1-Tridecanol	188. Ethyl vanillate	270. $\gamma$ -Hexanolactone	352. cis- $\alpha$ -Amylcinnamic aldehyde
26. (+)-Fenchol	105. 1-Tetradecanol	189. 4-Methylanisole	271. 4,5-Dimethyl-3-hydroxy-2,5-dihydrofuran-2-one	353. trans- $\alpha$ -Amylcinnamic aldehyde
27. (S)-(-)-Limonene	106. 1-Pentadecanol	190. p-Cresol	272. Furfuryl isopropyl sulfide	354. Salicylaldehyde
28. (-)-Myrtenol	107. 1-Hexadecanol	191. n-Butyl phenyl ether	273. $\gamma$ -Octanolactone	355. 2-Hydroxy-4-methylbenzaldehyde
29. Piperitone (mixture of enantiomers, predominantly R)-(-)-form)	108. 1-Heptadecanol	192. Hydroquinone	274. 2-Ethylfuran	356. trans-Cinnamaldehyde
30. (S)-(+)-Ketopinic Acid	109. 1-octadecanol(Stearyl alcohol)	193. 4-Ethoxyphenol	195. 3-Hydroxyacetophenone	357. o-Vanillin
31. Terpin Monohydrate	110. 1-Nonadecanol	194. Eugenol	196. 3,5-Dimethoxyphenol	358. alpha-Methylcinnamaldehyde
32. Linalyl Butyrate	111. 1-Eicosanol	195. 3-Hydroxyacetophenone	197. Methyl 4-methoxyphenylpropionate	359. o-Veratraldehyde
33. Methylcyclopentadecanone	112. Ethyl Propionate	198. o-Cresol	198. 1,3-Dimethoxybenzene	360. Vanillyl isobutyrate
34. (S)-(-)-Citronellal	113. Ethyl butyrate	199. 1,3-Dimethoxybenzene	200. 2-Isopropylphenol	361. m-Tolualdehyde
35. (+)- $\alpha$ -Pinene	114. Ethyl pentanoate	200. 2-Isopropylphenol	201. Resorcinol	362. 4-Ethylbenzaldehyde
36. (+)- $\beta$ -Citronellol	115. Ethyl hexanoate	201. Resorcinol	202. trans-Anethole	363. O-Anisaldehyde
37. Hinokitiol	116. Ethyl heptanoate	202. trans-Anethole	203. O-Eugenol	364. 2,4,5-Trimethylbenzaldehyde
38. $\alpha$ -Damascone	117. Ethyl n-caprylate	203. O-Eugenol	204. 1,2,4-Trimethoxybenzene	365. 4-Hydroxybenzaldehyde
39. p-Cymene	118. Ethyl nonanoate	204. 1,2,4-Trimethoxybenzene	205. 2',6'-Dihydroxyacetophenone	366. Gentisaldehyde
40. Geranyl linalool (mixture of isomers)	119. Ethyl decanoate	205. 2',6'-Dihydroxyacetophenone	206. Phenyl acetate	367. Isovanilline
41. $\beta$ -Homocyclocitral	120. Ethyl undecanoate	206. Phenyl acetate	207. 2,5-Dimethylphenol	368. o-Methoxycinnamaldehyde
42. Eucalyptol	121. Ethyl dodecanoate	207. 2,5-Dimethylphenol	208. 1,4-Dimethoxybenzene	369. o-Tolualdehyde
43. (+)-Camphene	122. Ethyl tridecanoate	208. 1,4-Dimethoxybenzene	209. p-Propyl anisole	370. 3-Methoxybenzaldehyde
44. (R)-(+)-Pulegone	123. Ethyl tetradecanoate	209. p-Propyl anisole	210. 4-Methylpropiophenone	371. Cuminaldehyde
45. (+)-Menthhol	124. Ethyl pentadecanoate	210. 4-Methylpropiophenone	211. 1,2,3-Trimethoxybenzene	372. 3-Hydroxybenzaldehyde
46. L-Menthyl acetate	125. Ethyl palmitate	211. 1,2,3-Trimethoxybenzene	212. Salicylamide	373. Ethyl vanillin
47. trans- $\beta$ -Farnesene	126. Ethyl Heptadecanoate	212. Salicylamide	213. 3',4'-Dihydroxyacetophenone	374. Vanillin acetate
48. (+)-Nootkatone	127. Ethyl Stearate	213. 3',4'-Dihydroxyacetophenone	214. Propoxybenzene	375. Syringaldehyde
49. Sclareol	128. Ethyl Nonadecanoate	214. Propoxybenzene	215. Isoeucresol	376. Heptane
50. Isoprenyl alcohol	129. Ethyl Arachidate	215. Isoeucresol	216. Methyl salicylate	377. Octane
51. Isoprenol	130. Methyl butyrate	216. Methyl salicylate	217. 4-Methylcatechol	378. Nonane
52. Angelic acid	131. Methyl pentanoate	217. 4-Methylcatechol	218. Dihydroeugenol	379. Decane
53. (+)-Isoborneol	132. Methyl hexanoate	218. Dihydroeugenol	219. 4-Propionylanisole	380. Undecane
54. Terpinolene	133. Methyl heptanoate	219. 4-Propionylanisole	220. 4-(Ethoxymethyl)-2-methoxyphenyl-2(5H)-furanone	381. Dodecane
55. (+)-(-)-S)-Carvone	134. Methyl octanoate	220. 4-(Ethoxymethyl)-2-methoxyphenyl-2(5H)-furanone	221. Eugenol acetate	382. Tridecane
56. (1S,2S,3R,5S)-(+)-2,3-Pinadiol	135. Methyl nonanoate	221. Eugenol acetate	222. Phenol	383. Tetradecane
57. $\beta$ -Ionone	136. Methyl decanoate	222. Phenol	223. 1-Ethyl-4-methoxybenzene	384. Pentadecane
58. $\beta$ -Caryophyllene	137. Methyl undecanoate	223. 1-Ethyl-4-methoxybenzene	224. 3,4-Dimethylphenol	385. Hexadecane
59. (+)-Borneol	138. Methyl dodecanoate	224. 3,4-Dimethylphenol	225. 5-methoxy-2methylphenol	386. Heptadecane
60. $\gamma$ -Terpinene	139. Methyl tridecanoate	225. 5-methoxy-2methylphenol	226. 3-Methoxyphenylacetone	387. Octadecane
61. L-(-)-Carvone	140. Methyl tetradecanoate	226. 3-Methoxyphenylacetone	227. Methyl 4-methoxyphenylacetate	388. Nonadecane
62. Isobornyl acetate	141. Methyl pentadecanoate	227. Methyl 4-methoxyphenylacetate	228. 2',5'-Dihydroxyacetophenone	389. Eicosane
63. Tetrahydrogeraniol	142. Methyl palmitate	228. 2',5'-Dihydroxyacetophenone	229. Vanillyl butyl ether	390. Hicosane
64. Geranyl Tiglate	143. Methyl heptadecanoate	229. Vanillyl butyl ether	230. Acetylphloroglucinol	391. Docosane
65. Methyl-3,3-dimethyl acrylate	144. Methyl octadecanoate(C18)	230. Acetylphloroglucinol	231. 2,6-Dimethylphenol	392. Tricosane
66. Squalene	145. Methyl nonadecanoate	231. 2,6-Dimethylphenol	232. Isobutyrophenone	393. Tetracosane
67. Linalool	146. Methyl eicosanoate(C20)	232. Isobutyrophenone	233. 2-Propylphenol	394. Butanoic acids
68. $\alpha$ -Terpinene	147. 2-Butanone	233. 2-Propylphenol	234. Thymol	395. Pentanoic acids
69. (S)-(-)-Perillyl alcohol	148. 2-Pentanone	234. Thymol	235. 4'-Isopropylacetophenone	396. Hexanoic acid
70. Phytol	149. 2-Hexanone	235. 4'-Isopropylacetophenone	236. Xanthoxylin	397. Heptanoic acid
71. (-)-Camphanic acid	150. 2-Heptanone	236. Xanthoxylin	237. Musc ketone	398. Octanoic acid
72. Prenol	151. 2-Octanone	237. Musc ketone	238. Phenetole	399. Nonanoic acid
73. Terpinen-4-ol	152. 2-Nonanone	238. Phenetole	239. 2-Ethoxyphenol	400. Decanoic acid
74. trans-Nerolidol	153. 2-Decanone	239. 2-Ethoxyphenol	240. 1-Phenyl-1,2-propanediol	401. Undecanoic acid
75. 1R,2R,3S,5R)-(-)-Pinenediol	154. 2-Undecanone	240. 1-Phenyl-1,2-propanediol	241. 2-Allylphenol	402. Lauric acid
76. (-)-Caryophyllene oxide	155. 2-Dodecanone	241. 2-Allylphenol	242. 2-Propylphenol	403. Tridecanoic acid
77. Verbenol	156. 2-Butanal	242. 2-Propylphenol	243. 4-tert-Butylphenol	404. Tetradecanoic acid
78. cis- $\beta$ -Ocimene	157. 2-Pentanal	243. 4-tert-Butylphenol	244. Pyrogallol	405. Pentadecanoic acid
79. trans- $\beta$ -Ocimene	158. 2-Hexanal	244. Pyrogallol	245. Methyl vanillate	406. Hexadecanoic acid
	159. 2-Heptanal			407. Heptadecanoic acid
	160. 2-Octanal			408. Octadecanoic acid
	161. 2-Nonanal			
	162. 2-Decanal			
	163. 2-Undecanal			