

## LAMPIRAN

### Lampiran 1 Data Hasil Uji In Silico (knapsack)

#### 1. Daun pare

<b>C_ID</b>	<b>CAS ID</b>	<b>Metabolite</b>	<b>Molecular formula</b>	<b>Mw</b>	<b>Organism or InChI Key etc.</b>
<u>C00000</u> <u>152</u>	7400-08-0	p-Coumaric acid	C <sub>9</sub> H <sub>8</sub> O <sub>3</sub>	16.404.734.412	<i>Momordica charantia</i>
<u>C00000</u> <u>170</u>	140-10-3	Cinnamate	C <sub>9</sub> H <sub>8</sub> O <sub>2</sub>	1.480.524.295	<i>Momordica charantia</i>
<u>C00000</u> <u>207</u>	65-85-0	Benzoic acid	C <sub>7</sub> H <sub>6</sub> O <sub>2</sub>	12.203.677.944	<i>Momordica charantia</i>
<u>C00000</u> <u>615</u>	501-16-6	Caffeic acid	C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>	18.004.225.874	<i>Momordica charantia</i>
<u>C00000</u> <u>677</u>	480-18-2	Dihydroquercetin	C <sub>15</sub> H <sub>12</sub> O <sub>7</sub>	30.405.830.274	<i>Momordica charantia</i>
<u>C00000</u> <u>848</u>	358-71-4	Isopentenyl diphosphate	C <sub>5</sub> H <sub>12</sub> O <sub>7</sub> P <sub>2</sub>	24.600.582.572	<i>Momordica charantia</i>
<u>C00000</u> <u>856</u>	99-96-7	4-hydroxybenzoic acid	C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>	13.803.169.406	<i>Momordica charantia</i>
<u>C00000</u> <u>905</u>	13920-14-4	15,15'-cis-Phytoene	C <sub>40</sub> H <sub>64</sub>	54.450.080.204	<i>Momordica charantia</i>
<u>C00000</u> <u>908</u>	6699-20-3	Geranylgeranyl diphosphate	C <sub>20</sub> H <sub>36</sub> O <sub>7</sub> P <sub>2</sub>	45.019.362.648	<i>Momordica charantia</i>

<u>C00000</u> <u>911</u>	502- 65-8	Lycopene	C40H56	53.643.820. 179	<i>Momor dica charant ia</i>
<u>C00000</u> <u>919</u>	7235- 40-7	beta-Carotene	C40H56	53.643.820. 179	<i>Momor dica charant ia</i>
<u>C00000</u> <u>920</u>	472- 70-8	beta-Cryptoxanthin	C40H56O	55.243.311. 641	<i>Momor dica charant ia</i>
<u>C00000</u> <u>931</u>	144- 68-3	Zeaxanthin	C40H56O2	56.842.803. 103	<i>Momor dica charant ia</i>
<u>C00000</u> <u>934</u>	72746 -33-9	zehta-carotene	C40H60	54.046.950. 191	<i>Momor dica charant ia</i>
<u>C00000</u> <u>947</u>	154- 23-4	(+)-Catechin	C15H14O6	29.007.903. 818	<i>Momor dica charant ia</i>
<u>C00000</u> <u>956</u>	490- 46-0	(-)-Epicatechin	C15H14O6	29.007.903. 818	<i>Momor dica charant ia</i>
<u>C00000</u> <u>970</u>	520- 26-3	Hesperidin	C28H34O15	61.018.977. 042	<i>Momor dica charant ia</i>
<u>C00000</u> <u>982</u>	480- 41-1	Naringenin	C15H12O5	27.206.847. 349	<i>Momor dica charant ia</i>
<u>C00000</u> <u>983</u>	10236 -47-2	Naringin	C27H32O14	58.017.920. 573	<i>Momor dica charant ia</i>
<u>C00001</u> <u>071</u>	529- 44-2	Myricetin	C15H10O8	3.180.375.6 73	<i>Momor dica charant ia</i>
<u>C00001</u> <u>195</u>	150- 97-0	Mevalonic acid	C6H12O4	14.807.355. 887	<i>Momor dica charant ia</i>
<u>C00001</u> <u>216</u>	506- 23-0	alpha-Eleostearic acid	C18H30O2	2.782.245.8 02	<i>Momor dica</i>

					<i>charant ia</i>
<u>C00001</u> <u>515</u>	152- 93-2	Vicine	C10H16N4O7	3.041.018.9 89	<i>Momor dica charant ia</i>
<u>C00002</u> <u>510</u>	491- 80-5	Biochanin A	C16H12O5	28.406.847. 349	<i>Momor dica charant ia</i>
<u>C00002</u> <u>647</u>	149- 91-7	Gallic acid	C7H6O5	1.700.215.2 33	<i>Momor dica charant ia</i>
<u>C00002</u> <u>648</u>	490- 79-9	Gentisic acid	C7H6O4	15.402.660. 868	<i>Momor dica charant ia</i>
<u>C00002</u> <u>668</u>	99-50- 3	3,4-Dihydroxybenzoic acid	C7H6O4	15.402.660. 868	<i>Momor dica charant ia</i>
<u>C00002</u> <u>674</u>	530- 57-4	Syringic acid	C9H10O5	19.805.282. 343	<i>Momor dica charant ia</i>
<u>C00002</u> <u>682</u>	121- 34-6	Vanillic acid	C8H8O4	16.804.225. 874	<i>Momor dica charant ia</i>
<u>C00002</u> <u>683</u>	5463- 22-9	Vanillin	C8H8O3	15.204.734. 412	<i>Momor dica charant ia</i>
<u>C00002</u> <u>724</u>	327- 97-9	3-O-Caffeoylquinic acid	C16H18O9	35.409.508. 217	<i>Momor dica charant ia</i>
<u>C00002</u> <u>729</u>	583- 17-5	2-Hydroxycinnamic acid	C9H8O3	16.404.734. 412	<i>Momor dica charant ia</i>
<u>C00002</u> <u>743</u>	1135- 24-6	Ferulic acid	C10H10O4	19.405.790. 881	<i>Momor dica charant ia</i>
<u>C00003</u> <u>650</u>	469- 38-5	Cycloartenol	C30H50O	42.638.616. 622	<i>Momor dica charant ia</i>

<u>C00003</u> <u>672</u>	83-46- 5	(-)-beta-Sitosterol	C29H50O	41.438.616. 622	<i>Momor dica charant ia</i>
<u>C00003</u> <u>674</u>	83-48- 7	beta-Stigmasterol	C29H48O	41.237.051. 615	<i>Momor dica charant ia</i>
<u>C00003</u> <u>686</u>	18444 -66-1	Cucurbitacin E	C32H44O8	55.630.361. 838	<i>Momor dica charant ia</i>
<u>C00003</u> <u>687</u>	5939- 57-1	Cucurbitacin F	C30H46O7	51.832.435. 382	<i>Momor dica charant ia</i>
<u>C00003</u> <u>738</u>	559- 70-6	beta-Amyrin	C30H50O	42.638.616. 622	<i>Momor dica charant ia</i>
<u>C00003</u> <u>755</u>	111- 02-4	All-trans-squalene	C30H50	41.039.125. 159	<i>Momor dica charant ia</i>
<u>C00003</u> <u>760</u>	640- 03-9	Antheraxanthin	C40H56O3	58.442.294. 565	<i>Momor dica charant ia</i>
<u>C00003</u> <u>765</u>	7488- 99-5	alpha-Carotene	C40H56	53.643.820. 179	<i>Momor dica charant ia</i>
<u>C00003</u> <u>776</u>	127- 40-2	Lutein	C40H56O2	56.842.803. 103	<i>Momor dica charant ia</i>
<u>C00003</u> <u>787</u>	126- 29-4	Violaxanthin	C40H56O4	60.041.786. 028	<i>Momor dica charant ia</i>
<u>C00004</u> <u>565</u>	520- 18-3	Kaempferol	C15H10O6	28.604.773. 805	<i>Momor dica charant ia</i>
<u>C00004</u> <u>631</u>	117- 39-5	Quercetin	C15H10O7	30.204.265. 268	<i>Momor dica charant ia</i>

<u>C00005</u> <u>373</u>	482- 35-9	Hirsutrin	C21H20O12	46.409.547. 611	<i>Momor dica charant ia</i>
<u>C00005</u> <u>413</u>	153- 18-4	Quercetin 3-rutinoside	C27H30O16	61.015.338. 491	<i>Momor dica charant ia</i>
<u>C00007</u> <u>233</u>	25515 -46-2	Naringenin chalcone	C15H12O5	27.206.847. 349	<i>Momor dica charant ia</i>
<u>C00007</u> <u>234</u>	480- 20-6	(+)-Dihydrokaempferol	C15H12O6	28.806.338. 812	<i>Momor dica charant ia</i>
<u>C00007</u> <u>235</u>	480- 17-1	Leucocyanidin	C15H14O7	3.060.739.5 28	<i>Momor dica charant ia</i>
<u>C00007</u> <u>259</u>	72-89- 9	Acetyl-CoA	C23H38N7O1 7P3S	80.912.577. 304	<i>Momor dica charant ia</i>
<u>C00007</u> <u>268</u>	372- 97-4	(2E,6E)-Farnesyl diphosphate	C15H28O7P2	38.213.102. 623	<i>Momor dica charant ia</i>
<u>C00007</u> <u>269</u>	1420- 36-6	Acetoacetyl-CoA	C25H40N7O1 8P3S	85.113.633. 773	<i>Momor dica charant ia</i>
<u>C00007</u> <u>270</u>	1553- 55-5	HMG-CoA	C27H44N7O2 0P3S	9.111.574.6 71	<i>Momor dica charant ia</i>
<u>C00007</u> <u>280</u>	30802 -00-7	p-Coumaroyl CoA	C30H42N7O1 8P3S	91.315.198. 779	<i>Momor dica charant ia</i>
<u>C00007</u> <u>282</u>	7200- 26-2	(S)-2,3-Epoxysqualene	C30H50O	42.638.616. 622	<i>Momor dica charant ia</i>
<u>C00007</u> <u>294</u>	358- 72-5	Dimethylallyl diphosphate	C5H12O7P2	24.600.582. 572	<i>Momor dica charant ia</i>

<u>C00007</u> <u>309</u>	451- 13-8	Homogentisate	C8H8O4	16.804.225. 874	<i>Momor dica charant ia</i>
<u>C00029</u> <u>479</u>	93-07- 2	3,4-dimethoxybenzoic acid	C9H10O4	18.205.790. 881	<i>Momor dica charant ia</i>
<u>C00029</u> <u>549</u>	81910 -41-0	5,19-Epoxycurbita- 6,23-diene-3,25-diol	C30H48O3	4.563.603.4 54	<i>Momor dica charant ia L.</i>
<u>C00029</u> <u>557</u>	33295 0-28-4	19(R)-Methoxy- 5beta,19- epoxycurbita-6,23- dien-3beta,25-diol	C31H50O4	48.637.091. 008	<i>Momor dica charant ia L.</i>
<u>C00029</u> <u>961</u>	621- 82-9	Cinnamic acid	C9H8O2	1.480.524.2 95	<i>Momor dica charant ia</i>
<u>C00030</u> <u>200</u>	2061- 64-5	5alpha,8alpha- Epidioxyergosta-6,22- dien-3beta-ol	C28H44O3	42.832.904. 527	<i>Momor dica charant ia</i>
<u>C00030</u> <u>424</u>	33333 2-48-2	Goyaglycoside-b	C37H60O9	64.842.373. 351	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>425</u>	33333 2-49-3	Goyaglycoside-c	C38H62O9	66.243.938. 358	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>426</u>	33333 2-50-6	Goyaglycoside-d	C38H62O9	66.243.938. 358	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>596</u>	91232 9-03-4	Karavilagenin A	C32H54O3	48.640.729. 559	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>597</u>	91232 9-02-3	Karavilagenin B	C31H52O3	47.239.164. 553	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>598</u>	92219 2-67-4	Karavilagenin C	C31H52O3	47.239.164. 553	<i>Momor dica</i>

					<i>charant ia L.</i>
<u>C00030</u> <u>599</u>	92219 2-68-5	Karaviloside I	C38H64O8	64.846.011. 902	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>600</u>	92219 2-69-6	Karaviloside II	C38H64O8	64.846.011. 902	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>601</u>	92219 2-70-9	Karaviloside III	C37H62O8	63.444.446. 896	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>602</u>	92219 2-71-0	Karaviloside IV	C37H52O9	64.036.113. 326	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>603</u>	92219 2-72-1	Karaviloside V	C43H72O14	81.249.220. 701	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>782</u>	81348 -81-4	Momordicoside F1	C37H60O8	63.242.881. 889	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>783</u>	81348 -82-5	Momordicoside F2	C36H58O8	61.841.316. 883	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>784</u>	81371 -54-2	Momordicoside G	C37H60O8	63.242.881. 889	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>785</u>	81371 -55-3	Momordicoside I	C36H58O8	61.841.316. 883	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>786</u>	81348 -84-7	Momordicoside K	C37H60O9	64.842.373. 351	<i>Momor dica charant ia L.</i>
<u>C00030</u> <u>787</u>	81348 -83-6	Momordicoside L	C36H58O9	63.440.808. 345	<i>Momor dica charant ia L.</i>

<u>C00032</u> <u>645</u>	20094 2-18-3	3beta-Hydroxy- (22E,24R)-ergosta- 5,8,22-trien-7-one	C28H42O2	41.031.848. 058	<i>Momor dica charant ia</i>
<u>C00033</u> <u>727</u>	2364- 23-0	Clerosterol	C29H48O	41.237.051. 615	<i>Momor dica charant ia</i>
<u>C00034</u> <u>000</u>	10093 43-97- 8	Kuguacin A	C30H46O4	47.033.960. 996	<i>Momor dica charant ia</i>
<u>C00034</u> <u>001</u>	10093 44-00- 6	Kuguacin B	C30H48O3	4.563.603.4 54	<i>Momor dica charant ia</i>
<u>C00034</u> <u>002</u>	10093 44-01- 7	Kuguacin C	C27H42O3	41.431.339. 521	<i>Momor dica charant ia</i>
<u>C00034</u> <u>003</u>	10093 44-04- 0	Kuguacin D	C27H40O4	42.829.265. 977	<i>Momor dica charant ia</i>
<u>C00034</u> <u>004</u>	10093 44-06- 2	Kuguacin E	C27H42O4	43.030.830. 983	<i>Momor dica charant ia</i>
<u>C00034</u> <u>061</u>	91590 -76-0	Momordicine I	C30H48O4	47.235.526. 002	<i>Momor dica charant ia</i>
<u>C00038</u> <u>088</u>	85372 -72-1	(19R,23E)-5beta,19- Epoxy-19,25- dimethoxycucurbita- 6,23-dien-3beta-ol	C32H52O4	50.038.656. 015	<i>Momor dica charant ia</i>
<u>C00038</u> <u>089</u>	85702 8-20-7	(19R,23E)-5beta,19- Epoxy-19- methoxycucurbita- 6,23,25-trien-3beta-ol	C31H48O3	4.683.603.4 54	<i>Momor dica charant ia</i>
<u>C00038</u> <u>733</u>	95164 6-19-8	Charantoside III	C36H56O7	60.040.260. 414	<i>Momor dica charant ia</i>

<u>C00038</u> <u>734</u>	95164 6-20-1	Charantoside IV	C36H56O7	60.040.260. 414	<i>Momor dica charant ia</i>
<u>C00038</u> <u>735</u>	95164 6-21-2	Charantoside V	C37H60O8	63.242.881. 889	<i>Momor dica charant ia</i>
<u>C00038</u> <u>736</u>	95164 6-22-3	Charantoside VI	C37H60O8	63.242.881. 889	<i>Momor dica charant ia</i>
<u>C00038</u> <u>737</u>	95164 6-23-4	Charantoside VII	C36H54O8	6.143.818.6 87	<i>Momor dica charant ia</i>
<u>C00038</u> <u>738</u>	95164 6-24-5	Charantoside VIII	C38H62O9	66.243.938. 358	<i>Momor dica charant ia</i>
<u>C00047</u> <u>944</u>	87760 3-72-0	Karavilagenin E	C30H48O3	4.563.603.4 54	<i>Momor dica charant ia</i>
<u>C00048</u> <u>450</u>	93473 9-29-4	Karavilagenin D	C30H46O4	47.033.960. 996	<i>Momor dica charant ia</i>
<u>C00048</u> <u>456</u>	11414 53-57- 7	Kuguacin F	C30H42O5	48.230.322. 445	<i>Momor dica charant ia</i>
<u>C00048</u> <u>457</u>	11414 53-59- 9	Kuguacin G	C30H44O6	50.031.378. 914	<i>Momor dica charant ia</i>
<u>C00048</u> <u>458</u>	11414 53-61- 3	Kuguacin H	C30H44O5	48.431.887. 452	<i>Momor dica charant ia</i>
<u>C00048</u> <u>459</u>	11414 53-65- 7	Kuguacin J	C30H46O3	45.434.469. 533	<i>Momor dica charant ia</i>
<u>C00048</u> <u>460</u>	11414 53-67- 9	Kuguacin K	C25H34O6	43.023.553. 882	<i>Momor dica charant ia</i>

<u>C00048</u> <u>461</u>	11414 53-69- 1	Kuguacin L	C25H36O4	40.026.135. 964	<i>Momor dica charant ia</i>
<u>C00048</u> <u>462</u>	11414 53-71- 5	Kuguacin M	C22H28O4	35.619.875. 938	<i>Momor dica charant ia</i>
<u>C00048</u> <u>463</u>	11414 53-73- 7	Kuguacin N	C30H46O4	47.033.960. 996	<i>Momor dica charant ia</i>
<u>C00048</u> <u>464</u>	11414 53-75- 9	Kuguacin O	C30H42O4	46.630.830. 983	<i>Momor dica charant ia</i>
<u>C00048</u> <u>465</u>	11414 53-77- 1	Kuguacin P	C27H40O4	42.829.265. 977	<i>Momor dica charant ia</i>
<u>C00048</u> <u>466</u>	11414 53-79- 3	Kuguacin Q	C29H44O5	47.231.887. 452	<i>Momor dica charant ia</i>
<u>C00048</u> <u>467</u>	19109 7-54-8	Kuguacin R	C30H48O4	47.235.526. 002	<i>Momor dica charant ia</i>
<u>C00048</u> <u>468</u>	11414 53-81- 7	Kuguacin S	C30H44O4	46.832.395. 989	<i>Momor dica charant ia</i>
<u>C00051</u> <u>623</u>	13512 6-59-9	Momorcharaside A	C42H72O15	81.648.712. 163	<i>Momor dica charant ia</i>
<u>C00051</u> <u>624</u>	13488 6-64-9	Momorcharaside B	C36H62O10	6.544.342.9 82	<i>Momor dica charant ia</i>
<u>C00051</u> <u>725</u>	33333 2-41-5	Goyaglycoside-a	C37H60O9	64.842.373. 351	<i>Momor dica charant ia</i>
<u>C00051</u> <u>726</u>	33333 3-12-3	Goyaglycoside-e	C42H68O13	78.046.599. 226	<i>Momor dica charant ia</i>
<u>C00051</u> <u>727</u>	33333 3-13-4	Goyaglycoside-f	C42H68O13	78.046.599. 226	<i>Momor dica</i>

					<i>charant ia</i>
<u>C00051</u> <u>728</u>	33333 3-14-5	Goyaglycoside-g	C43H70O16	84.246.638. 619	<i>Momor dica charant ia</i>
<u>C00051</u> <u>729</u>	33333 3-19-0	Goyaglycoside-h	C42H70O15	81.447.147. 157	<i>Momor dica charant ia</i>
<u>C00051</u> <u>730</u>	33333 3-20-3	Goyasaponin I	C63H102O31	135.464.05 0.655	<i>Momor dica charant ia</i>
<u>C00051</u> <u>731</u>	33333 3-23-6	Goyasaponin II	C70H110O35	151.068.27 6.529	<i>Momor dica charant ia</i>
<u>C00051</u> <u>732</u>	33333 3-27-0	Goyasaponin III	C49H76O19	96.849.808. 025	<i>Momor dica charant ia</i>
<u>C00051</u> <u>733</u>	75801 -95-5	Momordicoside A	C42H72O15	81.648.712. 163	<i>Momor dica charant ia</i>
<u>C00051</u> <u>734</u>	78887 -72-6	Momordicoside C	C42H72O14	80.049.220. 701	<i>Momor dica charant ia</i>
<u>C00052</u> <u>006</u>	73-31- 4	Melatonin	C13H16N2O2	23.212.117. 777	<i>Momor dica charant ia</i>
<u>C00052</u> <u>039</u>		IPP	C5H12O7P2	24.600.582. 572	<i>Momor dica charant ia</i>
<u>C00052</u> <u>344</u>	588- 30-7	3-Hydroxycinnamic acid	C9H8O3	16.404.734. 412	<i>Momor dica charant ia</i>
<u>C00052</u> <u>681</u>	577- 85-5	3-Hydroxyflavone	C15H10O3	23.806.299. 419	<i>Momor dica charant ia</i>
<u>C00053</u> <u>051</u>	25429 -38-3	Coumaric acid	C9H8O3	16.404.734. 412	<i>Momor dica charant ia</i>

<u>C00053</u> <u>063</u>	35012 -08-9	Cucurbitadienol	C30H50O	42.638.616. 622	<i>Momor dica charant ia</i>
<u>C00053</u> <u>410</u>	10416 31-92- 8	Kuguaglycoside A	C37H62O8	63.444.446. 896	<i>Momor dica charant ia</i>
<u>C00053</u> <u>941</u>	95164 6-18-7	Charantoside II	C38H62O9	66.243.938. 358	<i>Momor dica charant ia</i>
<u>C00054</u> <u>283</u>	91105 4-47-2	Cucurbita-5,23,25- triene-3,7-dione	C30H44O2	43.633.413. 065	<i>Momor dica charant ia</i>
<u>C00054</u> <u>426</u>	10395 02-32- 3	Cucurbita-5,24-diene- 3,7,23-trione	C30H44O3	45.232.904. 527	<i>Momor dica charant ia</i>
<u>C00054</u> <u>728</u>	12208 90-23- 2	Charantadiol A	C30H46O3	45.434.469. 533	<i>Momor dica charant ia</i>
<u>C00054</u> <u>729</u>	95164 6-17-6	Charantoside I	C37H58O8	63.041.316. 883	<i>Momor dica charant ia</i>
<u>C00056</u> <u>380</u>	10409 03-38- 5	Kuguaglycoside B	C37H62O8	63.444.446. 896	<i>Momor dica charant ia</i>
<u>C00056</u> <u>381</u>	10416 31-93- 9	Kuguaglycoside C	C36H56O8	61.639.751. 876	<i>Momor dica charant ia</i>
<u>C00056</u> <u>382</u>	10416 31-94- 0	Kuguaglycoside D	C30H50O4	47.437.091. 008	<i>Momor dica charant ia</i>
<u>C00056</u> <u>383</u>	10416 31-95- 1	Kuguaglycoside E	C42H70O14	79.847.655. 695	<i>Momor dica charant ia</i>
<u>C00056</u> <u>384</u>	10416 31-96- 2	Kuguaglycoside F	C43H72O13	79.649.729. 239	<i>Momor dica charant ia</i>

<u>C00056</u> <u>385</u>	10416 31-97- 3	Kuguaglycoside G	C42H70O13	78.248.164. 232	<i>Momor dica charant ia</i>
<u>C00056</u> <u>386</u>	10416 31-98- 4	Kuguaglycoside H	C48H80O18	94.453.446. 575	<i>Momor dica charant ia</i>
<u>C00056</u> <u>500</u>	11414 53-63- 5	Kuguacin I	C31H46O5	49.833.452. 458	<i>Momor dica charant ia</i>
<u>C00056</u> <u>601</u>	11967 4-15-6	MCTI I	C137H225N47 O40S7	339.250.61 9.053	<i>Momor dica charant ia</i>
<u>C00056</u> <u>602</u>	11967 4-18-9	MCTI II	C129H210N42 O39S8	322.735.06 0.112	<i>Momor dica charant ia</i>
<u>C00056</u> <u>711</u>	12440 28-19- 0	7-Methoxycucurbita- 5,23,25-trien-3-ol	C31H50O2	45.438.108. 084	<i>Momor dica charant ia</i>
<u>C00056</u> <u>718</u>	12464 41-35- 9	5,19-Epoxy-19- methoxy- 20,21,22,23,24,25,26,2 7-octanorcucurbitane- 3,7,17-trione	C23H32O5	38.822.497. 413	<i>Momor dica charant ia</i>
<u>C00056</u> <u>784</u>	12852 9-78-2	13beta,28-Epoxy-11- ursen-3-one	C30H46O2	43.834.978. 071	<i>Momor dica charant ia</i>
<u>C00056</u> <u>802</u>	10117 26-62- 7	Momordicoside P	C36H58O9	63.440.808. 345	<i>Momor dica charant ia</i>
<u>C00056</u> <u>803</u>	10123 15-36- 4	Momordicin V	C39H60O12	72.040.847. 738	<i>Momor dica charant ia</i>
<u>C00056</u> <u>874</u>	11434 64-94- 1	Momordicoside W	C36H58O9	63.440.808. 345	<i>Momor dica charant ia</i>
<u>C00056</u> <u>961</u>	12287 85-48- 5	Momordicoside U	C37H60O9	64.842.373. 351	<i>Momor dica</i>

					<i>charant ia</i>
<u>C00056 962</u>	12287 85-49- 6	Momordicoside V	C36H58O8	61.841.316. 883	<i>Momor dica charant ia</i>
<u>C00056 975</u>	12464 41-32- 6	20,21,22,23,24,25,26,2 7-Octanorcucurbit-5- ene-3,7,17-trione	C22H30O3	34.221.949. 482	<i>Momor dica charant ia</i>
<u>C00056 976</u>	12464 41-33- 7	20,21,22,23,24,25,26,2 7-Octanorcucurbit-5- ene-3,7,16-trione	C22H30O3	34.221.949. 482	<i>Momor dica charant ia</i>
<u>C00057 007</u>	12891 17-58- 3	23,24,25,26,27- Pentanor-3,7- dioxocucurbit-5-en-22- oic acid	C25H36O4	40.026.135. 964	<i>Momor dica charant ia</i>
<u>C00057 186</u>	18915 6-40-9	Momordicilin	C36H60O3	54.045.424. 578	<i>Momor dica charant ia</i>
<u>C00057 187</u>	18915 6-41-0	Momordenol	C29H46O2	42.634.978. 071	<i>Momor dica charant ia</i>
<u>C00057 188</u>	18915 6-42-1	Momordol	C26H48O5	44.035.017. 464	<i>Momor dica charant ia</i>
<u>C00057 466</u>	60612 5-07-9	Momorcerebroside I	C48H93NO10	8.436.799.4 82	<i>Momor dica charant ia</i>
<u>C00057 539</u>	75799 -04-1	Momordicoside B	C47H80O19	94.852.938. 038	<i>Momor dica charant ia</i>
<u>C00057 552</u>	78887 -73-7	Momordicoside D	C42H70O13	78.248.164. 232	<i>Momor dica charant ia</i>
<u>C00057 553</u>	78887 -74-8	Momordicoside E	C37H60O12	69.640.847. 738	<i>Momor dica charant ia</i>

<u>C00057</u> <u>632</u>	89441 2-35-2	Momordicin IV	C36H58O9	63.440.808. 345	<i>Momor dica charant ia</i>
<u>C00057</u> <u>653</u>	91590 -75-9	Momordicin II	C36H58O9	63.440.808. 345	<i>Momor dica charant ia</i>
<u>C00057</u> <u>676</u>	94471 1-20-0	Momordicoside M	C42H68O14	79.646.090. 688	<i>Momor dica charant ia</i>
<u>C00057</u> <u>677</u>	94471 1-21-1	Momordicoside N	C42H68O14	79.646.090. 688	<i>Momor dica charant ia</i>
<u>C00057</u> <u>678</u>	94471 1-22-2	Momordicoside O	C42H68O15	8.124.558.2 15	<i>Momor dica charant ia</i>
<u>C00057</u> <u>942</u>	15909 9-33-9	Trieleostearin	C57H92O6	87.268.939. 067	<i>Momor dica charant ia</i>
<u>C00057</u> <u>951</u>	16533 7-39-3	<i>Momordica charantia</i> Trypsin inhibitor III	C132H206N42 O41S7	325.933.70 5.951	<i>Momor dica charant ia</i>
<u>C00059</u> <u>263</u>	11414 53-83- 9	19-epi-Kuguacin R	C30H48O4	47.235.526. 002	<i>Momor dica charant ia</i>
<u>C00059</u> <u>293</u>	11575 8-72-0	(3beta,5alpha,6alpha,22 E)-5,6-Epoxy-3- hydroxyergosta-8,22- dien-7-one	C28H42O3	42.631.339. 521	<i>Momor dica charant ia</i>
<u>C00059</u> <u>659</u>	13258 7-67-8	3,7-Dihydroxy-25- methoxycucurbita-5,23- dien-19-al	C31H50O4	48.637.091. 008	<i>Momor dica charant ia</i>
<u>C00060</u> <u>059</u>	15134 5-06-1	Decortinol	C29H48O2	42.836.543. 078	<i>Momor dica charant ia</i>
<u>C00060</u> <u>060</u>	15134 5-08-3	Decortinone	C29H46O2	42.634.978. 071	<i>Momor dica charant ia</i>

<u>C00060</u> <u>222</u>	16250 -61-6	Melithasterol B	C28H44O3	42.832.904. 527	<i>Momor dica charant ia</i>
<u>C00060</u> <u>844</u>	22259 -18-3	5alpha,6alpha- Epoxyergosta-8(14),22- diene-3beta,7alpha-diol	C28H44O3	42.832.904. 527	<i>Momor dica charant ia</i>
<u>C00061</u> <u>033</u>	24344 9-53-8	5alpha,6alpha-Epoxy- (22E,24R)-ergosta- 8,22-diene-3beta,7beta- diol	C28H44O3	42.832.904. 527	<i>Momor dica charant ia</i>
<u>C00061</u> <u>193</u>	27138 -57-4	Resorcylic acid	C7H6O4	15.402.660. 868	<i>Momor dica charant ia</i>
<u>C00061</u> <u>319</u>	29656 -58-4	Hydroxybenzoic acid	C7H6O3	13.803.169. 406	<i>Momor dica charant ia</i>
<u>C00063</u> <u>076</u>	81910 -39-6	5,19-Epoxy-25- methoxycucurbita-6,23- dien-3-ol	C31H50O3	47.037.599. 546	<i>Momor dica charant ia</i>
<u>C00063</u> <u>155</u>	85372 -65-2	(3S,7S,8S,9R,10R,13R, 14S,17R)-3,7- Dihydroxy-17-[(E,2R)- 6-hydroxy-6- methylhept-4-en-2-yl]- 4,4,13,14-tetramethyl- 2,3,7,8,10,11,12,15,16, 17-decahydro-1H- cyclopenta[a]phenanthr ene-9-carbaldehyde	C30H48O4	47.235.526. 002	<i>Momor dica charant ia</i>
<u>C00063</u> <u>156</u>	85372 -69-6	(23E)-3beta-Hydroxy- 7beta,25- dimethoxycucurbita- 5,23-dien-19-al	C32H52O4	50.038.656. 015	<i>Momor dica charant ia</i>

<u>C00063</u> <u>165</u>	85702 8-21-8	(23E)-3beta-Hydroxy- 7beta- methoxycucurbita- 5,23,25-trien-19-al	C31H48O3	4.683.603.4 54	<i>Momor dica charant ia</i>
<u>C00063</u> <u>358</u>	91232 9-04-5	7beta,25- Dihydrocucurbita- 5,23(E)-dien-19-al 3-O- beta-D-allopyranoside	C36H58O9	63.440.808. 345	<i>Momor dica charant ia</i>
<u>C00063</u> <u>642</u>	10958 46-99- 3	Momordicoside S	C48H82O20	97.853.994. 506	<i>Momor dica charant ia</i>
<u>C00063</u> <u>643</u>	10967 10-49- 4	Momordicoside Q	C36H60O10	65.241.864. 814	<i>Momor dica charant ia</i>
<u>C00063</u> <u>644</u>	10967 10-50- 7	Momordicoside R	C42H70O15	81.447.147. 157	<i>Momor dica charant ia</i>
<u>C00063</u> <u>838</u>	1392- 51-4	Momordicin	C31H50O3	47.037.599. 546	<i>Momor dica charant ia</i>
<u>C00064</u> <u>626</u>	93473 9-35-2	Karaviloside XI	C36H60O10	65.241.864. 814	<i>Momor dica charant ia</i>

## 2. kunyit

<b>C_ID</b>	<b>CAS ID</b>	<b>Metabolite</b>	<b>Molecular formula</b>	<b>Mw</b>	<b>Organism or InChIKey etc.</b>
<u>C00000</u> <u>136</u>	470-82- 6	1,8-Cineol	C10H18O	1.541.357.6 52	<i>Curcuma longa</i>
<u>C00000</u> <u>149</u>	6750- 60-3	Espatulanol	C15H24O	22.018.271. 539	<i>Curcuma longa</i>
<u>C00000</u> <u>152</u>	7400- 08-0	p-Coumaric acid	C9H8O3	16.404.734. 412	<i>Curcuma longa</i>
<u>C00000</u> <u>164</u>	473-15- 4	(+)-beta-Eudesmol	C15H26O	22.219.836. 545	<i>Curcuma longa</i>

<u>C00000</u> <u>615</u>	501-16- 6	Caffeic acid	C9H8O4	18.004.225. 874	<i>Curcuma longa</i>
<u>C00000</u> <u>816</u>	127-91- 3	beta-Pinene	C10H16	13.612.520. 051	<i>Curcuma longa</i>
<u>C00000</u> <u>819</u>	76-22-2	(+)-Camphor	C10H16O	15.212.011. 513	<i>Curcuma longa</i>
<u>C00000</u> <u>823</u>	138-86- 3	Limonene	C10H16	13.612.520. 051	<i>Curcuma longa</i>
<u>C00000</u> <u>839</u>	13466- 78-9	3-Carene	C10H16	13.612.520. 051	<i>Curcuma longa</i>
<u>C00000</u> <u>853</u>	123-35- 3	beta-Myrcene	C10H16	13.612.520. 051	<i>Curcuma longa</i>
<u>C00000</u> <u>857</u>	2009- 00-9	d-Sabinene	C10H16	13.612.520. 051	<i>Curcuma longa</i>
<u>C00000</u> <u>861</u>	586-62- 9	alpha-Terpinolene	C10H16	13.612.520. 051	<i>Curcuma longa</i>
<u>C00001</u> <u>209</u>	506-30- 9	Arachidic acid	C20H40O 2	31.230.283. 052	<i>Curcuma longa</i>
<u>C00001</u> <u>224</u>	60-33-3	Linoleic acid	C18H32O 2	28.024.023. 027	<i>Curcuma longa</i>
<u>C00001</u> <u>232</u>	112-80- 1	Oleic acid	C18H34O 2	28.225.588. 033	<i>Curcuma longa</i>
<u>C00001</u> <u>233</u>	57-10-3	Palmitic acid	C16H32O 2	25.624.023. 027	<i>Curcuma longa</i>
<u>C00001</u> <u>238</u>	57-11-4	Octadecanoic acid	C18H36O 2	28.427.153. 039	<i>Curcuma longa</i>
<u>C00002</u> <u>657</u>	123-08- 0	4- Hydroxybenzaldehyd e	C7H6O2	12.203.677. 944	<i>Curcuma longa</i>
<u>C00002</u> <u>682</u>	121-34- 6	Vanillic acid	C8H8O4	16.804.225. 874	<i>Curcuma longa</i>
<u>C00002</u> <u>683</u>	5463- 22-9	Vanillin	C8H8O3	15.204.734. 412	<i>Curcuma longa</i>
<u>C00002</u> <u>725</u>	104-55- 2	Cinnamaldehyde	C9H8O	13.205.751. 488	<i>Curcuma longa</i>
<u>C00002</u> <u>728</u>	458-36- 6	Coniferaldehyde	C10H10O 3	17.806.299. 419	<i>Curcuma longa</i>
<u>C00002</u> <u>731</u>	458-37- 7	Curcumin	C21H20O 6	36.812.598. 837	<i>Curcuma longa</i>
<u>C00002</u> <u>743</u>	1135- 24-6	Ferulic acid	C10H10O 4	19.405.790. 881	<i>Curcuma longa</i>

<u>C00003</u> <u>028</u>	507-70- 0	Borneol	C10H18O	1.541.357.6 52	<i>Curcuma longa</i>
<u>C00003</u> <u>040</u>	99-87-6	p-Cymene	C10H14	13.410.955. 045	<i>Curcuma longa</i>
<u>C00003</u> <u>046</u>	105-87- 3	Geranyl acetate	C12H20O 2	19.614.632. 988	<i>Curcuma longa</i>
<u>C00003</u> <u>047</u>	78-70-6	(+)-Linalool	C10H18O	1.541.357.6 52	<i>Curcuma longa</i>
<u>C00003</u> <u>051</u>	99-83-2	alpha-Phellandrene	C10H16	13.612.520. 051	<i>Curcuma longa</i>
<u>C00003</u> <u>110</u>	87-44-5	beta-Caryophyllene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00003</u> <u>111</u>	469-61- 4	alpha-Cedrene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00003</u> <u>131</u>	18794- 84-8	E-beta-farnesene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00003</u> <u>147</u>	6753- 98-6	alpha-Caryophyllene (obsol.)	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00003</u> <u>194</u>	470-40- 6	Thujopsene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00003</u> <u>204</u>	495-60- 3	alpha-Zingiberene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00003</u> <u>648</u>	57-88-5	Cholesterol	C27H46O	38.635.486. 609	<i>Curcuma longa</i>
<u>C00003</u> <u>672</u>	83-46-5	(-)-beta-Sitosterol	C29H50O	41.438.616. 622	<i>Curcuma longa</i>
<u>C00003</u> <u>674</u>	83-48-7	beta-Stigmasterol	C29H48O	41.237.051. 615	<i>Curcuma longa</i>
<u>C00007</u> <u>242</u>	495-61- 4	beta-Bisabolene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00007</u> <u>247</u>	463-40- 1	alpha-Linolenic acid	C18H30O 2	2.782.245.8 02	<i>Curcuma longa</i>
<u>C00007</u> <u>453</u>	33880- 83-0	beta-Elemene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00007</u> <u>540</u>	764-22- 7	Dihydrosphingosine	C18H39N O2	3.012.980.7 95	<i>Curcuma longa</i>
<u>C00007</u> <u>542</u>	629-80- 1	Hexadecanal	C16H32O	24.024.531. 564	<i>Curcuma longa</i>
<u>C00007</u> <u>630</u>	20307- 83-9	beta- Sesquiphellandrene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00010</u> <u>872</u>	555-10- 2	beta-Phellandrene	C10H16	13.612.520. 051	<i>Curcuma longa</i>

<u>C00011</u> <u>598</u>	129673- 87-6	[1S- [1alpha,2beta,5beta( R*)]]-5-(1,5- Dimethyl-4- hexenyl)-2-methyl-3- cyclohexene-1,2-diol	C15H26O 2	23.819.328. 007	<i>Curcuma longa</i>
<u>C00011</u> <u>617</u>	4176- 17-4	(R)-(-)-alpha- Curcumene	C15H22	2.021.721.5 07	<i>Curcuma longa</i>
<u>C00011</u> <u>620</u>	69301- 27-5	(-)-Curcuphenol	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00011</u> <u>622</u>	30199- 26-9	(R)-(-)-Xanthorrhizol	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00011</u> <u>625</u>	532-65- 0	(+)-ar-Turmerone	C15H20O	21.615.141. 526	<i>Curcuma longa</i>
<u>C00011</u> <u>630</u>	28976- 67-2	beta-Curcumene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00011</u> <u>639</u>	82508- 15-4	alpha-Turmerone	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00011</u> <u>640</u>	87440- 60-6	Curlone	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00011</u> <u>641</u>	56485- 42-8	Turmerone	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00011</u> <u>642</u>	26294- 59-7	(+)-alpha-Atlantone	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00011</u> <u>644</u>	56192- 70-2	(Z)-alpha-Atlantone	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00011</u> <u>646</u>	38331- 79-2	(+)-beta-Atlantone	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00011</u> <u>720</u>	23986- 74-5	(-)-Germacrene D	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00011</u> <u>728</u>	6902- 91-6	Germacrene	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00011</u> <u>731</u>	13657- 68-6	Curdione	C15H24O 2	23.617.763. 001	<i>Curcuma longa</i>
<u>C00011</u> <u>732</u>	38230- 32-9	Dehydrocurdione	C15H22O 2	23.416.197. 995	<i>Curcuma longa</i>
<u>C00011</u> <u>735</u>	129673- 85-4	(E,E,E)-2-(4,8- Dimethyl-10-oxo- 3,7-cyclodecadien-1- ylidene)-propanal	C15H20O 2	23.214.632. 988	<i>Curcuma longa</i>
<u>C00012</u> <u>011</u>	20307- 84-0	delta-Elemene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00012</u> <u>012</u>	29873- 99-2	(-)-gamma-Elemene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00012</u> <u>014</u>	5951- 67-7	alpha-Elemene	C15H24	20.418.780. 077	<i>Curcuma longa</i>

<u>C00012</u> <u>069</u>	92691- 35-5	(+)-Germacrone-4,5- epoxide	C15H22O 2	23.416.197. 995	<i>Curcuma</i> <i>longa</i>
<u>C00012</u> <u>474</u>	118-65- 0	Isocaryophyllene	C15H24	20.418.780. 077	<i>Curcuma</i> <i>longa</i>
<u>C00012</u> <u>483</u>	1139- 30-6	(-)-beta- Caryophyllene epoxide	C15H24O	22.018.271. 539	<i>Curcuma</i> <i>longa</i>
<u>C00012</u> <u>791</u>	97094- 19-4	Corymbolone	C15H24O 2	23.617.763. 001	<i>Curcuma</i> <i>longa</i>
<u>C00020</u> <u>146</u>	81939- 29-9	1-epi-Cubenol	C15H26O	22.219.836. 545	<i>Curcuma</i> <i>longa</i>
<u>C00020</u> <u>351</u>	19431- 84-6	Curcumenol	C15H22O 2	23.416.197. 995	<i>Curcuma</i> <i>longa</i>
<u>C00020</u> <u>356</u>	129673- 90-1	Procurcumadiol	C15H22O 3	25.015.689. 457	<i>Curcuma</i> <i>longa</i>
<u>C00020</u> <u>357</u>	98644- 24-7	Zedoarondiol	C15H24O 3	25.217.254. 463	<i>Curcuma</i> <i>longa</i>
<u>C00020</u> <u>376</u>	88-84-6	beta-Guaiene	C15H24	20.418.780. 077	<i>Curcuma</i> <i>longa</i>
<u>C00020</u> <u>377</u>	01/12/3 691	alpha-Guaiene	C15H24	20.418.780. 077	<i>Curcuma</i> <i>longa</i>
<u>C00020</u> <u>383</u>	22567- 17-5	gamma-gurjunene epoxide	C15H24	20.418.780. 077	<i>Curcuma</i> <i>longa</i>
<u>C00020</u> <u>416</u>	21698- 40-8	Procurcumenol	C15H22O 2	23.416.197. 995	<i>Curcuma</i> <i>longa</i>
<u>C00021</u> <u>309</u>	3853- 83-6	alpha-Himachalene	C15H24	20.418.780. 077	<i>Curcuma</i> <i>longa</i>
<u>C00021</u> <u>722</u>	50894- 66-1	Di-epi-alpha-cedrene	C15H24	20.418.780. 077	<i>Curcuma</i> <i>longa</i>
<u>C00029</u> <u>350</u>	28973- 97-9	cis-beta-Farnesene	C15H24	20.418.780. 077	<i>Curcuma</i> <i>longa</i>
<u>C00029</u> <u>544</u>	562-74- 3	4-Terpineol	C10H18O	1.541.357.6 52	<i>Curcuma</i> <i>longa</i>
<u>C00029</u> <u>672</u>	473-13- 2	(-)-alpha-Selinene	C15H24	20.418.780. 077	<i>Curcuma</i> <i>longa</i>
<u>C00029</u> <u>674</u>	98-55-5	alpha-Terpineol	C10H18O	1.541.357.6 52	<i>Curcuma</i> <i>longa</i>
<u>C00029</u> <u>679</u>	515-69- 5	alpha-Bisabolol	C15H26O	22.219.836. 545	<i>Curcuma</i> <i>longa</i>
<u>C00029</u> <u>831</u>	120710- 98-7	Bisacumol	C15H22O	21.816.706. 532	<i>Curcuma</i> <i>longa</i>
<u>C00029</u> <u>832</u>	120681- 81-4	Bisacurone	C15H24O 3	25.217.254. 463	<i>Curcuma</i> <i>longa</i>
<u>C00029</u> <u>961</u>	621-82- 9	Cinnamic acid	C9H8O2	1.480.524.2 95	<i>Curcuma</i> <i>longa</i>
<u>C00030</u> <u>068</u>	100347- 96-4	Curcumenone	C15H22O 2	23.416.197. 995	<i>Curcuma</i> <i>longa</i>

<u>C00030</u> <u>330</u>	19912- 61-9	Furanodiene	C15H20O	21.615.141. 526	<i>Curcuma longa</i>
<u>C00030</u> <u>346</u>	28976- 68-3	gamma-Curcumene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00030</u> <u>410</u>	475-31- 0	Glycocholic acid	C26H43N O6	46.530.903. 811	<i>Curcuma longa</i>
<u>C00030</u> <u>542</u>	102130- 90-5	Isoprocurcumenol	C15H22O 2	23.416.197. 995	<i>Curcuma longa</i>
<u>C00030</u> <u>758</u>	112-12- 9	2-Undecanone	C11H22O	17.016.706. 532	<i>Curcuma longa</i>
<u>C00030</u> <u>809</u>	108944- 67-8	Neocurdione	C15H24O 2	23.617.763. 001	<i>Curcuma longa</i>
<u>C00030</u> <u>933</u>	1197- 01-9	p-Cymen-8-ol	C10H14O	15.010.446. 507	<i>Curcuma longa</i>
<u>C00032</u> <u>432</u>	131651- 38-2	Turmeronol B	C15H20O 2	23.214.632. 988	<i>Curcuma longa</i>
<u>C00032</u> <u>769</u>	24939- 16-0	bis-(4- hydroxycinnamoyl)m ethane	C19H16O 4	308.104.85 9	<i>Curcuma longa L.</i>
<u>C00033</u> <u>734</u>	21284- 22-0	Cubenol	C15H26O	22.219.836. 545	<i>Curcuma longa</i>
<u>C00035</u> <u>050</u>	4179- 20-8	(+)-ar- Dihydroturmerone	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00035</u> <u>053</u>	38142- 57-3	ar-Turmerol	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00035</u> <u>440</u>	29837- 07-8	cis-alpha-Bisabolene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00037</u> <u>023</u>	22608- 11-3	Demethoxycurcumin	C20H18O 5	33.811.542. 369	<i>Curcuma longa</i>
<u>C00037</u> <u>572</u>	124-26- 5	Octadecanamide	C18H37N O	28.328.751. 481	<i>Curcuma longa</i>
<u>C00038</u> <u>054</u>	473-04- 1	(-)-Eudesm-7(11)-en- 4alpha-ol	C15H26O	22.219.836. 545	<i>Curcuma longa</i>
<u>C00038</u> <u>319</u>	159407- 35-9	7-epi-Sesquithujene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00042</u> <u>286</u>	33171- 05-0	Bisdemethoxycurcu min	C19H16O 4	308.104.85 9	<i>Curcuma longa</i>
<u>C00044</u> <u>863</u>	502623- 93-0	Letestuiianin A	C20H20O 5	34.013.107. 375	<i>Curcuma longa</i>
<u>C00044</u> <u>864</u>	76474- 56-1	Dihydrocurcumin	C21H22O 6	37.014.163. 844	<i>Curcuma longa</i>
<u>C00045</u> <u>250</u>	336784- 82-8	Calebin A	C21H20O 7	38.412.090. 299	<i>Curcuma longa</i>
<u>C00046</u> <u>607</u>	644-30- 4	alpha-Curcumene	C15H22	2.021.721.5 07	<i>Curcuma longa</i>

<u>C00048</u> <u>335</u>	495-62- 5	Bisabolene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00048</u> <u>432</u>	124-76- 5	Isoborneol	C10H18O	1.541.357.6 52	<i>Curcuma longa</i>
<u>C00050</u> <u>265</u>	108549- 48-0	(Z)-gamma- Atlantone	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00050</u> <u>751</u>	58728- 53-3	6-Methyl-7-(3- oxobutyl)- bicyclo[4.1.0]heptan- 3-one	C12H18O 2	19.413.067. 982	<i>Curcuma longa</i>
<u>C00051</u> <u>715</u>	830-09- 1	p-Methoxycinnamic acid	C10H10O 3	17.806.299. 419	<i>Curcuma longa</i>
<u>C00052</u> <u>870</u>	6895- 56-3	Bergamotene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00053</u> <u>254</u>	459-80- 3	Geranic acid	C10H16O 2	16.811.502. 975	<i>Curcuma longa</i>
<u>C00053</u> <u>959</u>	1080- 12-2	Dehydrozingerone	C11H12O 3	19.207.864. 425	<i>Curcuma longa</i>
<u>C00054</u> <u>094</u>	259795- 67-0	1,7-Bis(4- hydroxyphenyl)-1- heptene-3,5-dione	C21H22O 4	33.815.180. 919	<i>Curcuma longa</i>
<u>C00054</u> <u>214</u>	1253190 -33-8	Curculonone C	C15H24O 2	23.617.763. 001	<i>Curcuma longa</i>
<u>C00054</u> <u>293</u>	1253190 -34-9	Curculonone D	C15H26O 3	2.541.881.9 47	<i>Curcuma longa</i> (turm eric)
<u>C00054</u> <u>294</u>	1253190 -31-6	Curculonone A	C15H24O 2	23.617.763. 001	<i>Curcuma longa</i>
<u>C00054</u> <u>295</u>	1253190 -32-7	Curculonone B	C15H24O 2	23.617.763. 001	<i>Curcuma longa</i> (turm eric)
<u>C00054</u> <u>762</u>	153127- 42-5	Cyclocurcumin	C21H20O 6	36.812.598. 837	<i>Curcuma longa</i>
<u>C00054</u> <u>763</u>	1042441 -12-2	Didemthoxycyclocu rcumin	C19H16O 4	308.104.85 9	<i>Curcuma longa</i>
<u>C00054</u> <u>879</u>	1018687 -06-3	Curcumin L	C15H26O	22.219.836. 545	<i>Curcuma longa</i>
<u>C00055</u> <u>176</u>	36062- 04-1	1,7-Bis(4-hydroxy-3- methoxyphenyl)-3,5- heptanedione	C21H24O 6	3.721.572.8 85	<i>Curcuma longa</i>
<u>C00055</u> <u>271</u>	97550- 04-4	Curcumanolide A	C15H22O 2	23.416.197. 995	<i>Curcuma longa</i>
<u>C00055</u> <u>272</u>	97452- 55-6	Curcumanolide B	C15H22O 2	23.416.197. 995	<i>Curcuma longa</i>

<u>C00055</u> <u>412</u>	112494- 43-6	1,5-Dihydroxy-1,7- bis(4-hydroxy-3- methoxyphenyl)-4,6- heptadien-3-one	C21H22O 7	38.613.655. 306	<i>Curcuma longa</i>
<u>C00055</u> <u>413</u>	1192557 -83-7	1,5-Dihydroxy-1,7- bis(4- hydroxyphenyl)-4,6- heptadien-3-one	C19H18O 5	32.611.542. 369	<i>Curcuma longa</i>
<u>C00055</u> <u>414</u>	127214- 84-0	Bisacurone A	C15H24O 3	25.217.254. 463	<i>Curcuma longa</i>
<u>C00055</u> <u>415</u>	127214- 85-1	Bisacurone B	C15H24O 3	25.217.254. 463	<i>Curcuma longa</i>
<u>C00055</u> <u>416</u>	127214- 86-2	Bisacurone C	C15H24O 3	25.217.254. 463	<i>Curcuma longa</i>
<u>C00055</u> <u>579</u>	1786- 15-8	(E)-Nuciferol	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00055</u> <u>640</u>	1653- 30-1	2-Undecanol	C11H24O	17.218.271. 539	<i>Curcuma longa</i>
<u>C00055</u> <u>699</u>	18319- 35-2	8-Cedren-13-ol	C15H24O	22.018.271. 539	<i>Curcuma longa</i>
<u>C00055</u> <u>719</u>	85710- 39-0	Aromadendrene oxide	C15H24O	22.018.271. 539	<i>Curcuma longa</i>
<u>C00055</u> <u>763</u>	1256- 86-6	Cholesterol sulfate	C27H46O 4S	46.631.168. 069	<i>Curcuma longa</i>
<u>C00055</u> <u>964</u>	28580- 43-0	Ledane	C15H26	20.620.345. 083	<i>Curcuma longa</i>
<u>C00056</u> <u>161</u>	14605- 22-2	Tauroursodeoxycholi c acid	C26H45N O6S	49.929.675. 891	<i>Curcuma longa</i>
<u>C00056</u> <u>182</u>	111536- 37-9	trans-Z-alpha- Bisabolene epoxide	C15H24O	22.018.271. 539	<i>Curcuma longa</i>
<u>C00056</u> <u>587</u>	1192557 -84-8	1,5-Dihydroxy-1-(4- hydroxy-3- methoxyphenyl)-7- (4-hydroxyphenyl)- 4,6-heptadien-3-one	C20H20O 6	35.612.598. 837	<i>Curcuma longa</i>
<u>C00056</u> <u>588</u>	1192557 -85-9	1,5-Dihydroxy-7-(4- hydroxy-3- methoxyphenyl)-1- (4-hydroxyphenyl)- 4,6-heptadien-3-one	C20H20O 6	35.612.598. 837	<i>Curcuma longa</i>
<u>C00056</u> <u>589</u>	1192557 -86-0	3-Hydroxy-1,7-bis(4- hydroxyphenyl)-6- heptene-1,5-dione	C19H18O 5	32.611.542. 369	<i>Curcuma longa</i>

<u>C00056</u> <u>613</u>	1198806 -65-3	1-(4-Hydroxy-3-methoxyphenyl)-7-(4-hydroxyphenyl)-1-heptene-3,5-dione	C20H20O 5	34.013.107. 375	<i>Curcuma longa</i>
<u>C00056</u> <u>674</u>	1226854 -19-8	4-Hydroxy-1-methoxy-2,10-bisaboladien-9-one	C16H26O 3	2.661.881.9 47	<i>Curcuma longa</i>
<u>C00056</u> <u>675</u>	1226854 -20-1	1,8-Epoxy-4-hydroxy-2,10-bisaboladien-9-one	C15H22O 3	25.015.689. 457	<i>Curcuma longa</i>
<u>C00056</u> <u>676</u>	1226854 -21-2	3,6-Dihydroxy-p-menth-1-en-8-oic acid	C10H16O 4	200.104.85 9	<i>Curcuma longa</i>
<u>C00056</u> <u>731</u>	1252653 -63-6	6alpha-Hydroxycurcumanolide A	C15H22O 3	25.015.689. 457	<i>Curcuma longa</i>
<u>C00057</u> <u>849</u>	131651- 37-1	Turmeronol A	C15H20O 2	23.214.632. 988	<i>Curcuma longa</i>
<u>C00058</u> <u>949</u>	10281- 56-8	(-)-Dihydromyrcene	C10H18	13.814.085. 057	<i>Curcuma longa</i>
<u>C00059</u> <u>167</u>	11029- 06-4	Elemene	C15H24	20.418.780. 077	<i>Curcuma longa</i>
<u>C00059</u> <u>544</u>	127214- 97-5	Epiprocurcumenol	C15H22O 2	23.416.197. 995	<i>Curcuma longa</i>
<u>C00059</u> <u>597</u>	129673- 86-5	3-Hydroxybisabola-1,10-dien-9-one	C15H24O 2	23.617.763. 001	<i>Curcuma longa</i>
<u>C00059</u> <u>598</u>	129673- 88-7	[1R-[1alpha(S*),4alpha,5beta]]-6-(5-Hydroxy-4-methoxy-4-methyl-2-cyclohexen-1-yl)-2-methyl-2-hepten-4-one	C16H26O 3	2.661.881.9 47	<i>Curcuma longa</i>
<u>C00059</u> <u>599</u>	129673- 89-8	5-(1,5-Dimethyl-4-hexen-1-yl)-2-cyclohexene-1,4-diol	C14H24O 2	22.417.763. 001	<i>Curcuma longa</i>
<u>C00060</u> <u>792</u>	2150- 50-7	Divanillalaceton	C19H18O 5	32.611.542. 369	<i>Curcuma longa</i>
<u>C00061</u> <u>651</u>	377047- 68-2	Feruloylmethyl 4-hydroxycinnamate	C20H18O 6	35.411.033. 831	<i>Curcuma longa</i>
<u>C00061</u> <u>857</u>	470466- 02-5	1,7-Bis(4-hydroxy-3-methoxyphenyl)-1,4,6-heptatrien-3-one	C21H20O 5	35.213.107. 375	<i>Curcuma longa</i>

<u>C00061</u> <u>858</u>	470466- 03-6	7-Hydroxy-1,7-bis(4- hydroxy-3- methoxyphenyl)-1- heptene-3,5-dione	C21H22O 7	38.613.655. 306	<i>Curcuma longa</i>
<u>C00061</u> <u>859</u>	470466- 05-8	1,7-Bis(4- hydroxyphenyl)- 1,4,6-heptatrien-3- one	C19H16O 3	29.210.994. 438	<i>Curcuma longa</i>
<u>C00062</u> <u>647</u>	66964- 98-5	6-(1,5-Dimethyl-4- hexenyl)-3-methyl-2- cyclohexen-1-one	C15H24O	22.018.271. 539	<i>Curcuma longa</i>
<u>C00063</u> <u>091</u>	82508- 14-3	beta-Turmerone	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00063</u> <u>403</u>	92632- 19-4	(6S)-6-[(1S)-1,5- Dimethyl-4-hexen-1- yl]-3-methyl-2- cyclohexen-1-one	C15H24O	22.018.271. 539	<i>Curcuma longa</i>
<u>C00063</u> <u>475</u>	949081- 05-4	(6S)-6-(4-Hydroxy- 3-methylphenyl)-2- methyl-2-hepten-4- one	C15H20O 2	23.214.632. 988	<i>Curcuma longa</i>
<u>C00063</u> <u>476</u>	949081- 06-5	(6S)-6-(4- Hydroxyphenyl)-2- methyl-2-hepten-4- one	C14H18O 2	21.813.067. 982	<i>Curcuma longa</i>
<u>C00063</u> <u>477</u>	949081- 07-6	4-[(1S)-1,5- Dimethyl-3-oxo-4- hexen-1-yl]- benzaldehyde	C15H18O 2	23.013.067. 982	<i>Curcuma longa</i>
<u>C00063</u> <u>478</u>	949081- 08-7	4- Hydroxycinnamoylm ethyl ferulate	C20H18O 6	35.411.033. 831	<i>Curcuma longa</i>
<u>C00063</u> <u>479</u>	949081- 09-8	(5S,6R)-5-Hydroxy- 2-methyl-6-(4- methylphenyl)-2- hepten-4-one	C15H20O 2	23.214.632. 988	<i>Curcuma longa</i>
<u>C00063</u> <u>480</u>	949081- 10-1	(6S)-6-[(1S)-1,5- Dimethyl-3-oxo-4- hexen-1-yl]-3- methyl-2- cyclohexen-1-one	C15H22O 2	23.416.197. 995	<i>Curcuma longa</i>
<u>C00063</u> <u>634</u>	108549- 47-9	(E)-gamma- Atlantone	C15H22O	21.816.706. 532	<i>Curcuma longa</i>
<u>C00063</u> <u>739</u>	1252653 -66-9	1,10-Dehydro-10- deoxy-9- oxozedoarondiol	C15H20O 3	2.481.412.4 45	<i>Curcuma longa</i>

<u>C00064</u> <u>048</u>	180319- 90-8	Dehydrocurcumene B	C15H20	20.015.650. 064	<i>Curcuma longa</i>
<u>C00064</u> <u>065</u>	18476- 57-8	4,5-Dimethyl-2,6- octadiene	C10H18	13.814.085. 057	<i>Curcuma longa</i>
<u>C00064</u> <u>169</u>	2171066 -09-2	Bisabolone	C15H24O	22.018.271. 539	<i>Curcuma longa</i>
<u>C00064</u> <u>170</u>	2171066 -11-6	Bisabolone-9-one	C15H22O 2	23.416.197. 995	<i>Curcuma longa</i>
<u>C00064</u> <u>173</u>	2197- 52-6	8,11-Octadecadienoic acid	C18H32O 2	28.024.023. 027	<i>Curcuma longa</i>
<u>C00064</u> <u>182</u>	2243- 33-6	d-alpha-Phellandrene	C10H16	13.612.520. 051	<i>Curcuma longa</i>
<u>C00064</u> <u>212</u>	247797- 85-9	3,4,5,6-Tetramethyl- 2,5-octadiene	C12H22	1.661.721.5 07	<i>Curcuma longa</i>
<u>C00064</u> <u>234</u>	26489- 17-8	2,6-Dimethyl-2,6- octadiene-1,8-diol	C10H18O 2	17.013.067. 982	<i>Curcuma longa</i>
<u>C00064</u> <u>248</u>	278-63- 7	Bicyclo[7.2.0]undeca ne	C11H20	15.215.650. 064	<i>Curcuma longa</i>
<u>C00064</u> <u>282</u>	33563- 49-4	2,6,10-Dodecatrien- 1-ol	C12H20O	18.015.141. 526	<i>Curcuma longa</i>
<u>C00064</u> <u>306</u>	36557- 62-7	3,7-Dimethyl-6- nonenal	C11H20O	16.815.141. 526	<i>Curcuma longa</i>
<u>C00064</u> <u>392</u>	545-26- 6	Gitoxigenin	C23H34O 5	3.902.406.2 42	<i>Curcuma longa</i>
<u>C00064</u> <u>412</u>	5638- 21-1	Dicinnamoylmethane	C19H16O 2	27.611.502. 975	<i>Curcuma longa</i>
<u>C00064</u> <u>480</u>	6680- 97-3	12- Oxabicyclo[9.1.0]do deca-3,7-diene	C11H16O	16.412.011. 513	<i>Curcuma longa</i>
<u>C00064</u> <u>488</u>	67845- 50-5	4,8-Dimethyl-3,7- nonadien-2-ol	C11H20O	16.815.141. 526	<i>Curcuma longa</i>
<u>C00064</u> <u>504</u>	70897- 07-3	3-Bornanone	C10H16O	15.212.011. 513	<i>Curcuma longa</i>
<u>C00064</u> <u>523</u>	74646- 28-9	Nerolidyl propionate	C18H30O 2	2.782.245.8 02	<i>Curcuma longa</i>

### 3. Bawang merah

<b>C_ID</b>	<b>CAS ID</b>	<b>Metabolite</b>	<b>Molecular formula</b>	<b>Mw</b>	<b>Organism or InChIKey etc.</b>
<u>C00000</u> <u>001</u>	545-97- 1	Gibberellin A1	C19H24O6	3.481.572.8 85	<i>Allium cepa</i>

<u>C00000</u> <u>004</u>	468-44- 0	Gibberellin A4	C19H24O5	33.216.237. 388	<i>Allium cepa</i>
<u>C00000</u> <u>008</u>	7044- 72-6	Gibberellin A8	C19H24O7	36.415.220. 312	<i>Allium cepa</i>
<u>C00000</u> <u>009</u>	427-77- 0	Gibberellin A9	C19H24O4	31.616.745. 925	<i>Allium cepa</i>
<u>C00000</u> <u>012</u>	1164- 45-0	Gibberellin A12	C20H28O4	33.219.875. 938	<i>Allium cepa</i>
<u>C00000</u> <u>015</u>	13744- 18-8	Gibberellin A15	C20H26O4	33.018.310. 932	<i>Allium cepa</i>
<u>C00000</u> <u>020</u>	19143- 87-4	Gibberellin A20	C19H24O5	33.216.237. 388	<i>Allium cepa</i>
<u>C00000</u> <u>024</u>	19427- 32-8	Gibberellin A24	C20H26O5	34.617.802. 394	<i>Allium cepa</i>
<u>C00000</u> <u>034</u>	32630- 92-5	Gibberellin A34	C19H24O6	3.481.572.8 85	<i>Allium cepa</i>
<u>C00000</u> <u>044</u>	36434- 15-8	Gibberellin A44	C20H26O5	34.617.802. 394	<i>Allium cepa</i>
<u>C00000</u> <u>051</u>	56978- 14-4	Gibberellin A51	C19H24O5	33.216.237. 388	<i>Allium cepa</i>
<u>C00000</u> <u>218</u>	6894- 38-8	(-)-Jasmonic acid	C12H18O3	21.012.559. 444	<i>Allium cepa</i>
<u>C00000</u> <u>357</u>	66-25-1	Hexanal	C6H12O	10.008.881. 501	<i>Allium cepa</i>
<u>C00000</u> <u>677</u>	480-18- 2	Dihydroquercetin	C15H12O7	30.405.830. 274	<i>Allium cepa</i>
<u>C00000</u> <u>747</u>	1187- 84-4	L-S-methylcysteine	C4H9NO2S	13.503.539. 927	<i>Allium cepa</i>
<u>C00001</u> <u>115</u>	533-67- 5	Deoxyribose	C5H10O4	13.405.790. 881	<i>Allium cepa</i>
<u>C00001</u> <u>152</u>	99-20-7	Trehalose	C12H22O11	34.211.621. 155	<i>Allium cepa</i>
<u>C00001</u> <u>242</u>	539-86- 6	Allicin	C6H10OS2	1.620.173.0 64	<i>Allium cepa</i>
<u>C00001</u> <u>243</u>	2179- 57-9	Diallyl disulfide	C6H10S2	14.602.239. 178	<i>Allium cepa</i>
<u>C00001</u> <u>245</u>	624-92- 0	Dimethyl disulfide	C2H6S2	9.399.109.1 65	<i>Allium cepa</i>
<u>C00001</u> <u>246</u>	3658- 80-8	Dimethyl trisulfide	C2H6S3	12.596.316. 238	<i>Allium cepa</i>
<u>C00001</u> <u>247</u>	629-19- 6	Dipropyl disulfide	C6H14S2	15.005.369. 191	<i>Allium cepa</i>
<u>C00001</u> <u>254</u>	110-43- 0	2-Heptanone	C7H14O	11.410.446. 507	<i>Allium cepa</i>
<u>C00001</u> <u>257</u>	2179- 58-0	Methyl allyl disulfide	C4H8S2	12.000.674. 172	<i>Allium cepa</i>

<u>C00001</u> <u>266</u>	32157- 29-2	Propanethial S- oxide	C3H6OS	9.001.393.5 54	<i>Allium cepa</i>
<u>C00001</u> <u>267</u>	107-03- 9	Propane-1-thiol	C3H8S	7.603.467.0 99	<i>Allium cepa</i>
<u>C00001</u> <u>268</u>	75-33-2	Propane-2-thiol	C3H8S	7.603.467.0 99	<i>Allium cepa</i>
<u>C00001</u> <u>336</u>	556-27- 4	Alliin	C6H11NO3S	17.704.596. 396	<i>Allium cepa</i>
<u>C00001</u> <u>348</u>	372-75- 8	L-Citrulline	C6H13N3O3	1.750.956.9 13	<i>Allium cepa</i>
<u>C00001</u> <u>386</u>	63-91-2	L-Phenylalanine	C9H11NO2	1.650.789.7 86	<i>Allium cepa</i>
<u>C00001</u> <u>389</u>	23315- 20-0	S-[(E)-Prop-1- enyl]-L-cysteine S- oxide	C6H11NO3S	17.704.596. 396	<i>Allium cepa</i>
<u>C00001</u> <u>495</u>	73-03-0	Cordycepin	C10H13N5O 3	25.110.183. 932	<i>Allium cepa</i>
<u>C00002</u> <u>374</u>	7084- 24-4	Cyanidin 3-O- glucoside	C21H21O11. Cl	48.407.723. 923	<i>Allium cepa</i>
<u>C00002</u> <u>378</u>	2611- 67-8	Cyanin	C27H31O16	61.116.120. 995	<i>Allium cepa</i>
<u>C00002</u> <u>384</u>	16727- 30-3	Malvin	C29H35O17	6.551.874.2 47	<i>Allium cepa</i>
<u>C00002</u> <u>647</u>	149-91- 7	Gallic acid	C7H6O5	1.700.215.2 33	<i>Allium cepa</i>
<u>C00002</u> <u>663</u>	60-12-8	2-Phenylethanol	C8H10O	12.207.316. 494	<i>Allium cepa</i>
<u>C00002</u> <u>665</u>	108-73- 6	1,3,5- Trihydroxybenzene	C6H6O3	12.603.169. 406	<i>Allium cepa</i>
<u>C00002</u> <u>668</u>	99-50-3	3,4- Dihydroxybenzoic acid	C7H6O4	15.402.660. 868	<i>Allium cepa</i>
<u>C00002</u> <u>689</u>	498-02- 2	3'-Methoxy-4'- hydroxyacetopheno ne	C9H10O3	16.606.299. 419	<i>Allium cepa</i>
<u>C00002</u> <u>724</u>	327-97- 9	3-O-Caffeoylquinic acid	C16H18O9	35.409.508. 217	<i>Allium cepa</i>
<u>C00002</u> <u>743</u>	1135- 24-6	Ferulic acid	C10H10O4	19.405.790. 881	<i>Allium cepa</i>
<u>C00002</u> <u>776</u>	530-59- 6	Sinapic acid	C11H12O5	22.406.847. 349	<i>Allium cepa</i>
<u>C00002</u> <u>889</u>	37116- 80-6	Lunularin	C14H14O2	21.409.937. 969	<i>Allium cepa</i>
<u>C00004</u> <u>565</u>	520-18- 3	Kaempferol	C15H10O6	28.604.773. 805	<i>Allium cepa</i>

<u>C00004</u> <u>631</u>	117-39- 5	Quercetin	C15H10O7	30.204.265. 268	<i>Allium cepa</i>
<u>C00004</u> <u>636</u>	603-61- 2	Tamarixetin	C16H12O7	31.605.830. 274	<i>Allium cepa</i>
<u>C00005</u> <u>152</u>	52222- 74-9	Kaempferol 4'- glucoside	C21H20O11	44.810.056. 148	<i>Allium cepa</i>
<u>C00005</u> <u>231</u>	140163 -56-0	Kaempferol 3- sophoroside-7- glucuronide	C33H38O22	7.861.854.7 29	<i>Allium cepa</i>
<u>C00005</u> <u>373</u>	482-35- 9	Hirsutrin	C21H20O12	46.409.547. 611	<i>Allium cepa</i>
<u>C00005</u> <u>374</u>	522-12- 3	Quercetin 3-O- alpha-L-rhamnoside	C21H20O11	44.810.056. 148	<i>Allium cepa</i>
<u>C00005</u> <u>387</u>	20229- 56-5	Spiraeoside	C21H20O12	46.409.547. 611	<i>Allium cepa</i>
<u>C00005</u> <u>436</u>	29125- 80-2	Quercetin 3,4'-di-O- beta-D- glucopyranoside	C27H30O17	62.614.829. 954	<i>Allium cepa</i>
<u>C00005</u> <u>438</u>	42900- 82-3	Quercetin 7,4'- diglucoside	C27H30O17	62.614.829. 954	<i>Allium cepa</i>
<u>C00005</u> <u>464</u>	42903- 93-5	Quercetin 3- sophoroside-7- glucoside	C33H40O22	78.820.112. 297	<i>Allium cepa</i>
<u>C00005</u> <u>466</u>	140163 -57-1	Quercetin 3- sophoroside-7- glucuronide	C33H38O23	80.218.038. 753	<i>Allium cepa</i>
<u>C00005</u> <u>486</u>	133563 -23-2	Quercetin 3,7,4'- triglucoside	C33H40O22	78.820.112. 297	<i>Allium cepa</i>
<u>C00005</u> <u>525</u>	5041- 82-7	Isorhamnetin 3-O- beta-D- glucopyranoside	C22H22O12	47.811.112. 617	<i>Allium cepa</i>
<u>C00005</u> <u>532</u>	58902- 89-9	Isorhamnetin 4'- glucoside	C22H22O12	47.811.112. 617	<i>Allium cepa</i>
<u>C00005</u> <u>561</u>	28288- 98-4	Isorhamnetin 3,4'- diglucoside	C28H32O17	6.401.639.4 96	<i>Allium cepa</i>
<u>C00006</u> <u>614</u>	13306- 05-3	Cyanidin	C15H11O6	28.705.556. 308	<i>Allium cepa</i>
<u>C00006</u> <u>654</u>	802884 -14-6	Cyanidin 4'- glucoside	C21H21O11	44.910.838. 652	<i>Allium cepa</i>
<u>C00006</u> <u>659</u>	214424 -04-1	Cyanidin 3- laminaribioside	C27H31O16	61.116.120. 995	<i>Allium cepa</i>
<u>C00006</u> <u>669</u>	27459- 78-5	Cyanidin 3,4'- diglucoside	C27H31O16	61.116.120. 995	<i>Allium cepa</i>

<u>C00006</u> <u>679</u>	27214- 74-0	Peonidin 3- arabinoside	C21H21O10	43.311.347. 189	<i>Allium cepa</i>
<u>C00006</u> <u>698</u>	6906- 38-3	Myrtillin	C21H21O12. Cl	50.007.215. 385	<i>Allium cepa</i>
<u>C00006</u> <u>722</u>	6988- 81-4	Petunidin 3- glucoside	C22H23O12. Cl	51.408.780. 391	<i>Allium cepa</i>
<u>C00006</u> <u>735</u>	7228- 78-6	Oenin	C23H25O12	49.313.460. 127	<i>Allium cepa</i>
<u>C00006</u> <u>796</u>	94977- 38-5	Cyanidin 3-(6"- malonylglucoside)	C24H23O14	53.510.878. 045	<i>Allium cepa</i>
<u>C00006</u> <u>804</u>	157201 -93-9	Cyanidin 3-(6"- malonyllaminaribo side)	C30H33O19	69.716.160. 388	<i>Allium cepa</i>
<u>C00006</u> <u>860</u>	122856 -11-5	Peonidin 3-(6"- malonylglucoside)	C25H25O14	54.912.443. 051	<i>Allium cepa</i>
<u>C00006</u> <u>866</u>	651768 -32-0	Peonidin 3-(6'- malonylglucoside)- 5-glucoside	C31H35O19	71.117.725. 394	<i>Allium cepa</i>
<u>C00007</u> <u>535</u>	122-78- 1	Benzeneacetaldehy de	C8H8O	12.005.751. 488	<i>Allium cepa</i>
<u>C00008</u> <u>709</u>	14292- 40-1	Taxifolin 7-O-beta- D-glucopyranoside	C21H22O12	46.611.112. 617	<i>Allium cepa</i>
<u>C00008</u> <u>713</u>	38690- 65-2	Taxifolin 4'- glucoside	C21H22O12	46.611.112. 617	<i>Allium cepa</i>
<u>C00011</u> <u>093</u>	566942 -52-7	5- Carboxypyranocyan idin 3-O-beta- glucopyranoside	C24H21O13	51.709.821. 576	<i>Allium cepa</i>
<u>C00011</u> <u>094</u>	566942 -53-8	5- Carboxypyranocyan idin 3-O-(6"-O- malonyl-beta- glucopyranoside)	C27H23O16	60.309.860. 969	<i>Allium cepa</i>
<u>C00014</u> <u>773</u>	651768 -27-3	Cyanidin 3-(3- glucosyl-6- malonylglucoside)- 4'-glucoside	C36H43O24	85.921.442. 731	<i>Allium cepa</i>
<u>C00014</u> <u>775</u>	651768 -28-4	Cyanidin 7-(3- glucosyl-6- malonylglucoside)- 4'-glucoside	C36H43O24	85.921.442. 731	<i>Allium cepa</i>
<u>C00019</u> <u>064</u>	508-02- 1	Oleanolic acid	C30H48O3	4.563.603.4 54	<i>Allium cepa</i>

<u>C00019</u> 558	116-09- 6	Acetol	C3H6O2	7.403.677.9 44	<i>Allium cepa</i>
<u>C00020</u> 091	528-53- 0	Delphinidin chloride	C15H11ClO7 .Cl	37.298.818. 313	<i>Allium cepa</i>
<u>C00029</u> 371	1192- 62-7	2-Acetylfuran	C6H6O2	11.003.677. 944	<i>Allium cepa</i>
<u>C00029</u> 449	1072- 83-9	2-Acetyl pyrrole	C6H7NO	10.905.276. 385	<i>Allium cepa</i>
<u>C00029</u> 456	98-00-0	Furfuryl alcohol	C5H6O2	9.803.677.9 44	<i>Allium cepa</i>
<u>C00029</u> 546	7786- 61-0	4-Vinyl guaiacol	C9H10O2	15.006.807. 956	<i>Allium cepa</i>
<u>C00029</u> 547	67-47-0	5-Hydroxymethyl- 2-furaldehyde	C6H6O3	12.603.169. 406	<i>Allium cepa</i>
<u>C00030</u> 099	112-31- 2	Decanal	C10H20O	15.615.141. 526	<i>Allium cepa</i>
<u>C00030</u> 471	593-49- 7	Heptacosane	C27H56	38.043.820. 179	<i>Allium cepa</i>
<u>C00030</u> 753	01/07/2 309	Ferulic acid methyl ester	C11H12O4	20.807.355. 887	<i>Allium cepa</i>
<u>C00030</u> 958	629-99- 2	n-Pentacosane	C25H52	35.240.690. 166	<i>Allium cepa</i>
<u>C00032</u> 012	3943- 97-3	Methyl 4- hydroxycinnamate	C10H10O3	17.806.299. 419	<i>Allium cepa</i>
<u>C00032</u> 307	646-31- 1	Tetracosane	C24H50	33.839.125. 159	<i>Allium cepa</i>
<u>C00032</u> 409	638-67- 5	n-Tridecane	C23H48	32.437.560. 153	<i>Allium cepa</i>
<u>C00033</u> 834	13752- 84-6	Erythronic acid	C4H8O5	13.603.717. 337	<i>Allium cepa</i>
<u>C00034</u> 232	26046- 90-2	Se- Methylselenocysteine	C4H9NO2Se	18.297.985. 064	<i>Allium cepa</i>
<u>C00034</u> 649	57-83-0	Progesterone	C21H30O2	3.142.245.8 02	<i>Allium cepa</i>
<u>C00038</u> 408	864763 -98-4	Allin	C42H56O21 S7	112.013.59 0.396	<i>Allium cepa</i> var. <i>tropaeana</i>
<u>C00038</u> 666	121842 -71-5	Butiin	C7H15NO3S	19.307.726. 408	<i>Allium cepa</i> var. <i>tropaeana</i>
<u>C00038</u> 883	20905- 74-2	Cyanidin 3,5-di-O- glucoside	C27H31O16	61.116.120. 995	<i>Allium cepa</i>
<u>C00040</u> 074	17935- 26-1	Propiin	C6H13NO3S	17.906.161. 402	<i>Allium cepa</i> var. <i>tropaeana</i>
<u>C00042</u> 472	84-66-2	Diethyl phthalate	C12H14O4	22.208.920. 894	<i>Allium cepa</i>

<u>C00050</u> <u>413</u>	104-76- 7	2-Ethyl-1-hexanol	C8H18O	1.301.357.6 52	<i>Allium cepa</i>
<u>C00050</u> <u>424</u>	513-86- 0	3-hydroxy-2- Butanone	C4H8O2	880.524.29 5	<i>Allium cepa</i>
<u>C00050</u> <u>680</u>	623-36- 9	2-Methyl-2- pentenal	C6H10O	9.807.316.4 94	<i>Allium cepa</i>
<u>C00051</u> <u>443</u>	6915- 15-7	Malic acid	C4H6O5	1.340.215.2 33	<i>Allium cepa</i>
<u>C00051</u> <u>548</u>	10152- 76-8	Methyl allyl sulfide	C4H8S	8.803.467.0 99	<i>Allium cepa</i>
<u>C00051</u> <u>577</u>	2179- 60-4	Methyl propyl disulfide	C4H10S2	12.202.239. 178	<i>Allium cepa</i>
<u>C00051</u> <u>578</u>	4931- 66-2	Methyl pyroglutamate	C6H9NO3	14.305.824. 316	<i>Allium cepa</i>
<u>C00051</u> <u>720</u>	6853- 87-8	S-Methyl-L- cysteine sulfoxide	C4H9NO3S	15.103.031. 389	<i>Allium cepa</i>
<u>C00052</u> <u>140</u>	632-15- 5	3,4-Dimethyl thiophene	C6H8S	11.203.467. 099	<i>Allium cepa</i>
<u>C00052</u> <u>216</u>	95-16-9	Benzothiazole	C7H5NS	1.350.142.6 99	<i>Allium cepa</i>
<u>C00052</u> <u>588</u>	5910- 89-4	2,3- Dimethylpyrazine	C6H8N2	10.806.874. 827	<i>Allium cepa</i>
<u>C00052</u> <u>646</u>	109-08- 0	2-Methylpyrazine	C5H6N2	9.405.309.8 21	<i>Allium cepa</i>
<u>C00052</u> <u>743</u>	620-02- 0	5-Methylfurfural	C6H6O2	11.003.677. 944	<i>Allium cepa</i>
<u>C00053</u> <u>096</u>	490-83- 5	Dehydroascorbate	C6H6O6	17.401.643. 793	<i>Allium cepa</i>
<u>C00053</u> <u>130</u>	75-18-3	Dimethyl sulfide	C2H6S	6.201.902.0 92	<i>Allium cepa</i>
<u>C00053</u> <u>140</u>	84-74-2	Dibutyl phthalate	C16H22O4	27.815.180. 919	<i>Allium cepa</i>
<u>C00053</u> <u>167</u>	96-48-0	gamma Butyrolactone	C4H6O2	8.603.677.9 44	<i>Allium cepa</i>
<u>C00053</u> <u>345</u>	16718- 23-3	Isoalliin	C6H11NO3S	17.704.596. 396	<i>Allium cepa</i>
<u>C00053</u> <u>808</u>	487-35- 4	Syringaresinol	C22H26O8	41.816.276. 781	<i>Allium cepa</i>
<u>C00054</u> <u>007</u>	870-23- 5	Allyl mercaptan	C3H6S	7.401.902.0 92	<i>Allium cepa</i>
<u>C00054</u> <u>150</u>	52558- 99-3	2,5-Dihydro-4- methylthiazole	C4H7NS	10.102.991. 996	<i>Allium cepa</i>
<u>C00054</u> <u>270</u>	2179- 59-1	Allyl propyl disulfide	C6H12S2	14.803.804. 184	<i>Allium cepa</i>

<u>C00054</u> <u>535</u>	72437- 53-7	Butyl 1-methylethyl disulfide	C7H16S2	16.406.934. 197	<i>Allium cepa</i>
<u>C00054</u> <u>536</u>	72437- 64-0	Butyl propyl disulfide	C7H16S2	16.406.934. 197	<i>Allium cepa</i>
<u>C00054</u> <u>644</u>	116265 9-86-0	9-Carboxy-1,3,6,8- tetrahydroxyxanthyl ium(1+)	C14H9O7	28.903.482. 764	<i>Allium cepa</i>
<u>C00054</u> <u>679</u>	34135- 85-8	Allylmethyltrisulfid e	C4H8S3	15.197.881. 245	<i>Allium cepa</i>
<u>C00054</u> <u>795</u>	105798 -62-7	Alliofuroside A	C44H72O18	8.884.718.6 55	<i>Allium cepa</i>
<u>C00054</u> <u>798</u>	105445 1-71-6	Ceparoside A	C45H74O18	90.248.751. 556	<i>Allium cepa</i>
<u>C00054</u> <u>799</u>	516454 -90-3	Ceparoside B	C44H72O18	8.884.718.6 55	<i>Allium cepa</i>
<u>C00054</u> <u>800</u>	114317 -57-6	Alliospiroside C	C38H60O13	724.403.39 2	<i>Allium cepa</i>
<u>C00054</u> <u>801</u>	114317 -58-7	Alliospiroside D	C39H62O14	75.441.395. 669	<i>Allium cepa</i>
<u>C00054</u> <u>802</u>	114317 -59-8	Cepagenin	C27H42O5	44.630.322. 445	<i>Allium cepa</i>
<u>C00054</u> <u>918</u>	122018 -50-2	Ceposide D	C56H90O26	117.857.20 3.305	<i>Allium cepa</i>
<u>C00054</u> <u>977</u>	105871 1-45-7	Alliuocide G	C21H14O10	42.605.869. 667	<i>Allium cepa</i>
<u>C00055</u> <u>248</u>	57877- 72-2	Cepanone	C13H22O2	21.016.197. 995	<i>Allium cepa</i>
<u>C00055</u> <u>362</u>	119347 6-53-7	Ceparoside C	C51H82O22	104.652.97 7.431	<i>Allium cepa</i>
<u>C00055</u> <u>363</u>	119347 6-54-8	Ceparoside D	C51H82O22	104.652.97 7.431	<i>Allium cepa</i>
<u>C00055</u> <u>438</u>	455-41- 4	Cycloalliin	C6H11NO3S	17.704.596. 396	<i>Allium cepa</i>
<u>C00055</u> <u>546</u>	101688 3-43-4	Alluceposide	C34H36O22	79.616.982. 284	<i>Allium cepa</i>
<u>C00055</u> <u>598</u>	5905- 47-5	Methyl 1-propenyl disulfide	C4H8S2	12.000.674. 172	<i>Allium cepa</i>
<u>C00055</u> <u>620</u>	33922- 66-6	2-Hexyl-5-methyl- 3(2H)-furanone	C11H18O2	18.213.067. 982	<i>Allium cepa</i>
<u>C00055</u> <u>660</u>	34246- 57-6	3- Isopropylbenzaldehy de	C10H12O	14.808.881. 501	<i>Allium cepa</i>
<u>C00055</u> <u>672</u>	54644- 28-9	3,5-Diethyl-1,2,4- trithiolane	C6H12S3	18.001.011. 257	<i>Allium cepa</i>
<u>C00055</u> <u>686</u>	143193 -10-6	4,6-Diethyl-1,2,3,5- tetrathiolane	C6H12S4	2.119.821.8 33	<i>Allium cepa</i>

<u>C00055</u> <u>688</u>	17301- 32-5	4,7- Dimethylundecane	C13H28	18.421.910. 089	<i>Allium cepa</i>
<u>C00055</u> <u>732</u>	122-99- 6	beta-Hydroxyethyl phenyl ether	C8H10O2	13.806.807. 956	<i>Allium cepa</i>
<u>C00055</u> <u>797</u>	1892- 29-1	Diethanol disulphide	C4H10O2S2	15.401.222. 102	<i>Allium cepa</i>
<u>C00055</u> <u>802</u>	5756- 24-1	Dimethyl tetrasulfide	C2H6S4	15.793.523. 311	<i>Allium cepa</i>
<u>C00055</u> <u>803</u>	6028- 61-1	Dipropyl trisulfide	C6H14S3	18.202.576. 264	<i>Allium cepa</i>
<u>C00055</u> <u>985</u>	72437- 68-4	Methyl pentyl disulphide	C6H14S2	15.005.369. 191	<i>Allium cepa</i>
<u>C00056</u> <u>769</u>	126624 -27-9	4-Hexyl-1,3- cyclopentanedione	C11H18O2	18.213.067. 982	<i>Allium cepa</i>
<u>C00056</u> <u>774</u>	126876 -23-1	4-Ethyl-2,3,5- trithia-6-octene	C7H14S3	19.402.576. 264	<i>Allium cepa</i>
<u>C00056</u> <u>775</u>	126876 -27-5	6-Ethyl-4,5,7- trithiadecane	C9H20S3	22.407.271. 283	<i>Allium cepa</i>
<u>C00056</u> <u>914</u>	119052 -99-2	S-1-Propenyl methanesulfinothio ate	C4H8OS2	13.600.165. 634	<i>Allium cepa</i>
<u>C00056</u> <u>967</u>	123680 6-29-3	Onionin A	C9H16O2S2	22.005.917. 121	<i>Allium cepa</i>
<u>C00057</u> <u>001</u>	126624 -26-8	4-Octyl-1,3- cyclopentanedione	C13H22O2	21.016.197. 995	<i>Allium cepa</i>
<u>C00057</u> <u>343</u>	3194- 15-8	1-(2-Furyl)-1- propanone	C7H8O2	1.240.524.2 95	<i>Allium cepa</i>
<u>C00057</u> <u>819</u>	120637 -81-2	Zwiebelane A	C6H10OS2	1.620.173.0 64	<i>Allium cepa</i>
<u>C00057</u> <u>824</u>	120709 -22-0	Zwiebelane B	C6H10OS2	1.620.173.0 64	<i>Allium cepa</i>
<u>C00057</u> <u>966</u>	17619- 36-2	2,3,4-Trithiaheptane	C4H10S3	15.399.446. 251	<i>Allium cepa</i>
<u>C00058</u> <u>067</u>	289-16- 7	1,2,4- Trithiacyclopentane	C2H4S3	12.394.751. 232	<i>Allium cepa</i>
<u>C00058</u> <u>120</u>	497-03- 0	Tiglaldehyde	C5H8O	8.405.751.4 88	<i>Allium cepa</i>
<u>C00058</u> <u>223</u>	847699 -99-4	Tropeoside B1	C38H62O13	72.641.904. 207	<i>Allium cepa</i>
<u>C00058</u> <u>224</u>	847796 -66-1	Tropeoside A1	C39H64O14	75.642.960. 675	<i>Allium cepa</i>
<u>C00058</u> <u>225</u>	847796 -68-3	Tropeoside A2	C39H64O14	75.642.960. 675	<i>Allium cepa</i>
<u>C00058</u> <u>936</u>	102169 -64-2	2-Ethyl-5-methyl-3- thiazoline	C6H11NS	12.906.122. 009	<i>Allium cepa</i>

<u>C00059</u> <u>015</u>	10473- 14-0	3-Methyl-3-buten- 2-ol	C5H10O	8.607.316.4 94	<i>Allium cepa</i>
<u>C00059</u> <u>092</u>	1072- 43-1	Propylene sulfide	C3H6S	7.401.902.0 92	<i>Allium cepa</i>
<u>C00059</u> <u>155</u>	110-62- 3	Pentanal	C5H10O	8.607.316.4 94	<i>Allium cepa</i>
<u>C00059</u> <u>192</u>	111-76- 2	2-Butoxy ethanol	C6H14O2	11.809.937. 969	<i>Allium cepa</i>
<u>C00059</u> <u>397</u>	1198- 37-4	2,4- Dimethylquinoline	C11H11N	15.708.914. 936	<i>Allium cepa</i>
<u>C00059</u> <u>538</u>	126790 -01-0	3-Ethyl-3,4- dihydro-1,2-dithiin	C6H10S2	14.602.239. 178	<i>Allium cepa</i>
<u>C00059</u> <u>539</u>	126790 -02-1	3-Ethyl-1,2-dithi-4- ene	C6H10S2	14.602.239. 178	<i>Allium cepa</i>
<u>C00059</u> <u>632</u>	13133- 07-8	Nystose	C24H42O21	66.622.185. 841	<i>Allium cepa</i>
<u>C00059</u> <u>852</u>	1404- 26-8	Polymyxin B	C111H194N3 2O26	239.148.42 0.461	<i>Allium cepa</i>
<u>C00059</u> <u>901</u>	14250- 96-5	(E)-2-Methyl-2- pentenal	C6H10O	9.807.316.4 94	<i>Allium cepa</i>
<u>C00060</u> <u>030</u>	1492- 24-6	L-2-Aminobutyric acid	C4H9NO2	10.306.332. 854	<i>Allium cepa</i>
<u>C00060</u> <u>085</u>	1534- 08-3	S-Methyl- thioacetate	C3H6OS	9.001.393.5 54	<i>Allium cepa</i>
<u>C00060</u> <u>251</u>	1639- 04-9	2-Methyl-3- pentanethiol	C6H14S	11.808.162. 118	<i>Allium cepa</i>
<u>C00060</u> <u>340</u>	171828 -62-9	Cyanidin 3-O-(6-O- malonyl-beta-D- glucoside)	C24H23O14	53.510.878. 045	<i>Allium cepa</i>
<u>C00060</u> <u>388</u>	17564- 27-1	2-Ethyl-4-methyl- 1,3-dithiolane	C6H12S2	14.803.804. 184	<i>Allium cepa</i>
<u>C00060</u> <u>406</u>	17795- 24-3	3- (Propylsulphinyl)- L-alanine	C6H13NO3S	17.906.161. 402	<i>Allium cepa</i>
<u>C00060</u> <u>407</u>	17795- 25-4	3-Propylsulfinyl- alanine	C6H13NO3S	17.906.161. 402	<i>Allium cepa</i>
<u>C00060</u> <u>786</u>	214423 -62-8	Cyanidin 3-(3- glucosyl-6- malonylglucoside)	C30H33O19	69.716.160. 388	<i>Allium cepa</i>
<u>C00060</u> <u>950</u>	2307- 10-0	S-Propyl thioacetate	C5H10OS	11.804.523. 567	<i>Allium cepa</i>
<u>C00060</u> <u>960</u>	23328- 62-3	2- Methylthioacetalde hyde	C3H6OS	9.001.393.5 54	<i>Allium cepa</i>

<u>C00060</u> <u>965</u>	2346- 00-1	2-Methyl-2- thiazoline	C4H7NS	10.102.991. 996	<i>Allium cepa</i>
<u>C00060</u> <u>992</u>	23654- 92-4	3,5-Dimethyl 1,2,4- trithiolane	C4H8S3	15.197.881. 245	<i>Allium cepa</i>
<u>C00061</u> <u>002</u>	23838- 18-8	cis-Methyl propenyl disulfide	C4H8S2	12.000.674. 172	<i>Allium cepa</i>
<u>C00061</u> <u>003</u>	23838- 19-9	trans-Methyl propenyl disulfide	C4H8S2	12.000.674. 172	<i>Allium cepa</i>
<u>C00061</u> <u>004</u>	23838- 20-2	cis-1-Propenyl propyl disulfide	C6H12S2	14.803.804. 184	<i>Allium cepa</i>
<u>C00061</u> <u>005</u>	23838- 21-3	trans-1-Propenyl propyl disulfide	C6H12S2	14.803.804. 184	<i>Allium cepa</i>
<u>C00061</u> <u>030</u>	24295- 03-2	2-Acetylthiazole	C5H5NOS	12.700.918. 452	<i>Allium cepa</i>
<u>C00061</u> <u>053</u>	24653- 75-6	Mercapto acetone	C3H6OS	9.001.393.5 54	<i>Allium cepa</i>
<u>C00061</u> <u>223</u>	27817- 67-0	Allyl propyl sulfide	C6H12S	11.606.597. 111	<i>Allium cepa</i>
<u>C00061</u> <u>303</u>	2934- 94-3	3-epi-Gibberellin A4	C19H24O5	33.216.237. 388	<i>Allium cepa</i>
<u>C00061</u> <u>343</u>	3008- 40-0	1,2- Cyclopentanedione	C5H6O2	9.803.677.9 44	<i>Allium cepa</i>
<u>C00061</u> <u>359</u>	30453- 31-7	Ethyl propyl disulfide	C5H12S2	13.603.804. 184	<i>Allium cepa</i>
<u>C00061</u> <u>389</u>	3142- 66-3	3-Hydroxypentan- 2-one	C5H10O2	10.206.807. 956	<i>Allium cepa</i>
<u>C00061</u> <u>440</u>	3268- 49-3	3-Methyl thiopropenal	C4H8OS	10.402.958. 561	<i>Allium cepa</i>
<u>C00061</u> <u>442</u>	32726- 14-0	3-Methylsulfinyl- alanine	C4H9NO3S	15.103.031. 389	<i>Allium cepa</i>
<u>C00061</u> <u>477</u>	33368- 79-5	Propenyl propyl trisulfide	C6H12S3	18.001.011. 257	<i>Allium cepa</i>
<u>C00061</u> <u>487</u>	33672- 51-4	Isopropyl propyl disulfide	C6H14S2	15.005.369. 191	<i>Allium cepa</i>
<u>C00061</u> <u>590</u>	3581- 89-3	5-Methyl-1,3- thiazole	C4H5NS	990.142.69 9	<i>Allium cepa</i>
<u>C00061</u> <u>606</u>	36080- 98-5	3,4-Dihydroxy- benzoic acid, 3,5- dihydroxyphenyl ester	C13H10O6	26.204.773. 805	<i>Allium cepa</i>
<u>C00061</u> <u>684</u>	3877- 15-4	Methyl propyl sulfide	C4H10S	9.005.032.1 05	<i>Allium cepa</i>

<u>C00062</u> <u>115</u>	53730- 25-9	gamma-L- Glutamyl-S-(trans- 1-propenyl)-L- cysteine sulfoxide	C11H18N2O 6S	30.608.855. 705	<i>Allium cepa</i>
<u>C00062</u> <u>167</u>	54814- 64-1	2-Decen-5-olide	C10H16O2	16.811.502. 975	<i>Allium cepa</i>
<u>C00062</u> <u>222</u>	562-68- 5	Kestose	C18H32O16	50.416.903. 498	<i>Allium cepa</i>
<u>C00062</u> <u>226</u>	563-45- 1	3-Methyl-1-butene	C5H10	7.007.825.0 32	<i>Allium cepa</i>
<u>C00062</u> <u>311</u>	585-25- 1	2,3-Octanedione	C8H14O2	14.209.937. 969	<i>Allium cepa</i>
<u>C00062</u> <u>362</u>	59432- 60-9	Fructofuranosylnyst ose	C30H52O26	82.827.468. 184	<i>Allium cepa</i>
<u>C00062</u> <u>383</u>	600-14- 6	2,3-Pentanedione	C5H8O2	1.000.524.2 95	<i>Allium cepa</i>
<u>C00062</u> <u>546</u>	638-00- 6	2,4- Dimethylthiophene	C6H8S	11.203.467. 099	<i>Allium cepa</i>
<u>C00062</u> <u>602</u>	651768 -25-1	2-[4-(beta-D- Glucopyranosyloxy )3- hydroxyphenyl]- 3,5,7-trihydroxy-1- benzopyrylium	C21H21O11	44.910.838. 652	<i>Allium cepa</i>
<u>C00062</u> <u>603</u>	651768 -26-2	3-(beta-D- Glucopyranosyloxy )2-[4-(beta-D- glucopyranosyloxy) -3-hydroxyphenyl]- 5,7-dihydroxy-1- benzopyrylium	C27H31O16	61.116.120. 995	<i>Allium cepa</i>
<u>C00062</u> <u>604</u>	651768 -34-2	2-(3,4- Dihydroxyphenyl)- 3-[[3-O-beta-D- glucopyranosyl-6- O-(3-methoxy-1,3- dioxopropyl)-beta- D- glucopyranosyl]oxy ]-5,7-dihydroxy-1- benzopyrylium	C31H35O19	71.117.725. 394	<i>Allium cepa</i>
<u>C00062</u> <u>654</u>	6710- 22-1	L-gamma- Glutamyl-S-(2- carboxypropyl)-L- cysteinylglycine	C14H23N3O 8S	39.312.058. 546	<i>Allium cepa</i>
<u>C00062</u> <u>900</u>	75-85-4	2-Methyl-2-butanol	C5H12O	8.808.881.5 01	<i>Allium cepa</i>

<u>C00062</u> <u>938</u>	76788- 46-0	4,5-Dimethyl-2- ethyl-3-thiazoline	C7H13NS	14.307.687. 015	<i>Allium cepa</i>
<u>C00063</u> <u>033</u>	79869- 58-2	Propanethiol	C3H8S	7.603.467.0 99	<i>Allium cepa</i>
<u>C00063</u> <u>284</u>	886847 -79-6	2-(3,4- Dihydroxyphenyl)- 4,6-dihydroxy-2- methyl-3(2H)- benzofuranone	C15H12O6	28.806.338. 812	<i>Allium cepa</i>
<u>C00063</u> <u>285</u>	886847 -80-9	(+)-1a-(3,4- Dihydroxyphenyl)- 1a,7a-dihydro-4,6- dihydroxy-7a- (2,4,6- trihydroxyphenyl)- 7H- oxireno[b][1]benzo pyran-7-one	C21H14O10	42.605.869. 667	<i>Allium cepa</i>
<u>C00063</u> <u>286</u>	886847 -81-0	(+)-3-[1a-(3,4- Dihydroxyphenyl)- 4,6-dihydroxy-7- oxo-7H- oxireno[b][1]benzo pyran-7a(1aH)-yl]- 2,4,6-trihydroxy- alpha-oxo- benzeneacetic acid, methyl ester	C24H16O13	5.120.590.9 06	<i>Allium cepa</i>
<u>C00063</u> <u>287</u>	886847 -82-1	(+)-1a-(3,4- Dihydroxyphenyl)- 7a-[2-(3,4- dihydroxyphenyl)- 3,5,7-trihydroxy-4- oxo-4H-1- benzopyran-8-yl]- 1a,7a-dihydro-4,6- dihydroxy-7H- oxireno[b][1]benzo pyran-7-one	C30H18O14	60.206.965. 529	<i>Allium cepa</i>
<u>C00063</u> <u>288</u>	886847 -83-2	Lunularin-4-O- beta-D-glucoside	C20H24O7	37.615.220. 312	<i>Allium cepa</i>
<u>C00063</u> <u>842</u>	1399- 85-5	Quercetin O- glucoside	C21H20O12	46.409.547. 611	<i>Allium cepa</i>
<u>C00064</u> <u>569</u>	847700 -00-9	Tropeoside B2	C38H62O13	72.641.904. 207	<i>Allium cepa</i> var. Tropea

<u>C00064</u> <u>622</u>	92067- 03-3	Quercetin O- rhamnoside	C21H20O11	44.810.056. 148	<i>Allium cepa</i>
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## Lampiran 2 Perhitungan formula bahan

### A. Perhitungan formula 0 (basis)

$$\text{Jumlah bahan (g)} = \frac{\% \text{ bahan}}{100} \times 50$$

$$\text{Parafin} = \frac{7}{100} \times 50 = 3.5 \text{ g}$$

$$\text{Gliserin} = \frac{5}{100} \times 50 = 2.5 \text{ g}$$

$$\text{Stearic acid} = \frac{6}{100} \times 50 = 3.0 \text{ g}$$

$$\text{Triethanolamine (TEA)} = \frac{2}{100} \times 50 = 1.0 \text{ g}$$

$$\text{Cetyl alcohol} = \frac{2}{100} \times 50 = 1.0 \text{ g}$$

$$\text{Methyl paraben} = \frac{0.2}{100} \times 50 = 0.1 \text{ g}$$

$$\text{Propyl paraben} = \frac{0.1}{100} \times 50 = 0.05 \text{ g}$$

$$\text{Aquademineralisata} = 50 - 11.15 = 38.85 \text{ g}$$

### B. Perhitungan formula 1

$$\text{Jumlah bahan (g)} = \frac{\% \text{ bahan}}{100} \times 50$$

$$\text{Parafin} = \frac{7}{100} \times 50 = 3.5 \text{ g}$$

$$\text{Gliserin} = \frac{5}{100} \times 50 = 2.5 \text{ g}$$

$$\text{Ekstrak kunyit} = \frac{1}{100} \times 50 = 0.5 \text{ g}$$

$$\text{Ekstrak pare} = \frac{1}{100} \times 50 = 0.5 \text{ g}$$

$$\text{Ekstrak bawang merah} = \frac{2}{100} \times 50 = 1.0 \text{ g}$$

$$\text{Stearic acid} = \frac{6}{100} \times 50 = 3.0 \text{ g}$$

$$\text{Triethanolamine (TEA)} = \frac{2}{100} \times 50 = 1.0 \text{ g}$$

$$\text{Cetyl alcohol} = \frac{2}{100} \times 50 = 1.0 \text{ g}$$

$$\text{Methyl paraben} = \frac{0.2}{100} \times 50 = 0.1 \text{ g}$$

$$\text{Propyl paraben} = \frac{0.1}{100} \times 50 = 0.05 \text{ g}$$

$$\text{Aquademineralsata} = 50 - \text{jumlah bahan lain} = 36,85 \text{ g}$$

C. Perhitungan formula 2

$$\text{Jumlah bahan (g)} = \frac{\% \text{ bahan}}{100} \times 50$$

$$\text{Parafin} = \frac{7}{100} \times 50 = 3.5 \text{ g}$$

$$\text{Gliserin} = \frac{5}{100} \times 50 = 2.5 \text{ g}$$

$$\text{Ekstrak kunyit} = \frac{2}{100} \times 50 = 1.0 \text{ g}$$

$$\text{Ekstrak pare} = \frac{2}{100} \times 50 = 1.0 \text{ g}$$

$$\text{Ekstrak bawang merah} = \frac{3}{100} \times 50 = 1.5 \text{ g}$$

$$\text{Stearic acid} = \frac{6}{100} \times 50 = 3.0 \text{ g}$$

$$\text{Triethanolamine (TEA)} = \frac{2}{100} \times 50 = 1.0 \text{ g}$$

$$\text{Cetyl alcohol} = \frac{2}{100} \times 50 = 1.0 \text{ g}$$

$$\text{Methyl paraben} = \frac{0.2}{100} \times 50 = 0.1 \text{ g}$$

$$\text{Propyl paraben} = \frac{0.1}{100} \times 50 = 0.05 \text{ g}$$

$$\text{Aquademineralsata} = 50 - \text{jumlah bahan lain} = 35,35 \text{ g}$$

D. Perhitungan formula 3

$$\text{Jumlah bahan (g)} = \frac{\% \text{ bahan}}{100} \times 50$$

$$\text{Parafin} = \frac{7}{100} \times 50 = 3.5 \text{ g}$$

$$\text{Gliserin} = \frac{5}{100} \times 50 = 2.5 \text{ g}$$

$$\text{Ekstrak kunyit} = \frac{3}{100} \times 50 = 1.5 \text{ g}$$

$$\text{Ekstrak pare} = \frac{3}{100} \times 50 = 1.5 \text{ g}$$

$$\text{Ekstrak bawang merah} = \frac{4}{100} \times 50 = 2.0 \text{ g}$$

$$\text{Stearic acid} = \frac{6}{100} \times 50 = 3.0 \text{ g}$$

$$\text{Triethanolamine (TEA)} = \frac{2}{100} \times 50 = 1.0 \text{ g}$$



$$\text{Cetyl alcohol} = \frac{2}{100} \times 50 = 1.0 \text{ g}$$

$$\text{Methyl paraben} = \frac{0.2}{100} \times 50 = 0.1 \text{ g}$$

$$\text{Propyl paraben} = \frac{0.1}{100} \times 50 = 0.05 \text{ g}$$

$$\text{Aquademineralsata} = 50 - \text{jumlah bahan lain} = 33,85 \text{ g}$$

### Lampiran 3 Dokumentasi kegiatan preparasi ekstrak tanaman

No	Gambar	Keterangan
1		Penyiapan tanaman untuk dikeringkan
2		Daun pare, kunyit dan bawang setelah kering



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5



Proses maserasi tanaman

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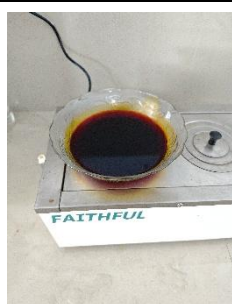
6



Proses penguapan  
dengan alat evaporator





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7



Pengentalan ekstrak  
dengan waterbath

Lampiran 4 Dokumentasi kegiatan uji stabilitas lotion

No	Gambar	Keterangan
1		Pengujian pH sediaan lotion
		
2		Pengujian viskositas sediaan lotion
		



3



Sebelum dioleskan



Formula I

4

Setelah dioleskan



Formula II

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Formula III

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## **BIODATA PENULIS**

### **A. Data Pribadi**

1. Nama lengkap : Imam Rismar
2. Tempat tanggal lahir : Masamba, 15 Mei 1994
3. Jenis kelamin : Laki-laki
4. Alamat : Kecamatan Larompong
5. Pekerjaan : Pelajar (Mahasiswa)
6. Email : rismarimam@gmail.com
7. Kontak Pribadi : 0877 8764 9822

### **B. Riwayat Pendidikan**

1. SDN 227 LAROMPONG (2001-2006)
2. MTS KEPPE (2007-2009)
3. SMAN 1 BELOPA (2010-2012)
4. STIKES RSU DAYA MAKASSAR (2012-2013)