

A chemical barcode refers to a unique molecular weight sequence (e.g., M.W. “538,358,196,328,459,559,238,308,297,262,245,446” for *Aegle marmelos*) of characteristic phytochemicals of particular plant species.

Serial No.	Plants Name	Unique molecular weight sequence or chemical barcode
1.	<i>Aegle marmelos</i>	538,358,196,328,459,559,238,308,297,262,245,446
2.	<i>Amomum subulatum</i>	174,651,643,304,350,320,306,320,334,517,334,518,495,521,316,254
3.	<i>Andrographis paniculata</i>	506,406,462,516,446,594,512,350,352,442,350,701,496,498,480
4.	<i>Azadirachta indica</i>	352,366,192,354,394,756,626,620,782,498,440,586,562,424,514,468,848,832
5.	<i>Bergera koengii</i>	152,276,312,278,630,624,556,292,309,551,323,347,586,616,484,331,361,445
6.	<i>Bombax ceiba</i>	306,578,422,577,422,433,434,359,721,866,436,582,327,330,294,456,278,272
7.	<i>Butea monosperma</i>	204,518,506,550,464,302,502,328,418,292,276,556,424,495
8.	<i>Cannabis sativa</i>	386,610,448,594,578,432,592,446,313,624,436,495,968
9.	<i>Cassia fistula</i>	324,252,293,165,327,431,430,306,386,412,175,246,228,328,220,419
10.	<i>Catharanthus roseus</i>	370,226,358,756,741,388,276,516,594,654,319,530,352,608,336,456,426,823,312,338
11.	<i>Cinnamomum tamala</i>	226,538,432,433,304,466,452,624,394,678,217,164,362,472,273,226
12.	<i>Cinnamomum verum</i>	445,196,330,418,162,278,326,352,278,354
13.	<i>Dalbergis sisoo</i>	202,187,354,407,464,564,726,666,300,580,418,740,710,578,927,268,276,676,603,580
14.	<i>Eclipta prostrata</i>	220,165,246,225,258,338,213,211,388,279,314,797,635,327,851,435,470
15.	<i>Elettaria cardamomum</i>	267,184,202,304,640,202,318,364,344,348,278,521,280
16.	<i>Glycyrrhiza glabra</i>	432,712,564,838,636,566,822,695,696,708,268,320,324,410,254,338,390
17.	<i>Justicia adhatoda</i>	188,218,564,307,564,534,307,499,337,351,321,335,365,350,326,276,608,937,592,622
18.	<i>Lawsonia inermis</i>	182,500,346,176,338,452,594,432,678,452,204,414,598,833,817
19.	<i>Mangifera indica</i>	331,560,386,544,712,432,528,560,522,680,674,294,316,276,517,495,608
20.	<i>Mentha suaveolens</i>	204,354,348,538,388,360,832,608,552,328,358,676,276,495,608,592,838
21.	<i>Phyllanthus emblica</i>	362,344,332,382,638,477,788,938,968,388,336,470,432,385,462,521,508,534,226
22.	<i>Rauvolfia serpentina</i>	462,340,326,382,522,562,338,502,368,330,512,571,756,354,352,634,456
23.	<i>Syzygium aromaticum</i>	484,354,393,208,268,318,469,462,396,466,478,316,206,326,472,519,618,456
24.	<i>Syzygium cumini</i>	187,372,957,478,386,480,464,928,538,442,522,344,390,488,634
25.	<i>Terminalia arjuna</i>	356,936,432,464,666,650,488,444,506,608,278,592,280,456
26.	<i>Terminalia bellirica</i>	356,332,494,684,652,326,954,652,634,636,986,956,938,788,940,462,330,614,592
27.	<i>Terminalia chebula</i>	356,652,1084,332,334,327,636,936,954,986,493,634,956,938,940,310,666,462,504,390
28.	<i>Tinospora cordifolia</i>	265,341,480,218,522,536,396,390,288,343,668,374,358,607,608,278,592
29.	<i>Trachyspermum ammi</i>	594,360,438,462,446,476,329,270,330,314,602,164,312,328,412,624,608,636,638
30.	<i>Zingiber officinale</i>	343,476,332,374,432,476,322,276,380,380,350,424,326,332,346,454,424

Reference:

Kumar A, Ali M, Kumar A, Mishra DK, Kanojiya S. Identification of Botanicals Based on Their Chemical Barcode Using Ultraperformance Liquid Chromatography-Mass Spectrometry. Rapid Commun Mass Spectrom. 2025 Sep 30;39(18):e10081. doi: 10.1002/rcm.10081. PMID: 40491386.