

Łukasiewicz Research Network – New Chemical Syntheses Institute

Supercritical Extraction Research Group

List of raw materials subjected to extraction with supercritical carbon dioxide in the Łukasiewicz Research Network - New Chemical Syntheses Institute in Puławy, including the form of extracts

Lp	Name	Extract form
1.	Amaranth (amaranth)	Oil (in tests up to 8% squalene)
2.	Angelica	Pasty
3.	Chokeberry - Seeds	Oil
4.	Astragalus Mongolicus	Pasty
5.	Biomass From Insects	Oily (at ambient temperature), paste (after cooling to approximately 4 degrees), mainly fatty acids
6.	Silver birch	Pasty (very sticky)
7.	Downy birch	Pasty
8.	Artemisia Annua	Pasty, oily with water added
9.	Hops (cones)	Liquid form at 50°C
10.	Hops (residues - "hops")	Pasty
11.	Cetyna – Pine, Fir, Spruce	Pasty, oily, resinous
12.	Lemon (peel)	Pasty, partly oily
13.	Black currant (seeds)	Oil
14.	Blackcurrant (peel)	Pasty
15.	Blackcurrant – Pomace (Seeds + Peel)	Pasty and oily
16.	Black lilac	Smooth
17.	Black cumin	Oil
18.	Garlic, wild garlic	Pasty
19.	Oak (wood, bark, chips)	Pasty

20.	Pumpkin (seeds)	Oil
21.	St. John's wort (herb)	Pasty
22.	Nutmeg	Buttery
23.	Marine algae	Pasty
24.	Freshwater algae (seaweed)	Pasty
25.	Cloves	Oil
26.	Grapefruit (peel)	Pasty, partly oily
27.	Tea – leaves (green and black)	Strip-shaped, resin extract, sticky
28.	Ginger	Oily, thick consistency
29.	Apples (seeds, peel)	Oily (seeds), pasty (peel)
30.	Juniper (seeds)	Oil
31.	Blackberry (seeds)	Oil
32.	Cocoa tree (husk)	Pasty
33.	Artichoke	Pasty
34.	Chestnuts	Oil
35.	Coffee (seeds)	Oil
36.	Cumin (seeds)	Oil
37.	Coriander (seeds)	Oil
38.	Hemp (seeds)	Oil
39.	Fennel	Pasty
40.	Turmeric	Pasty, oily, sticky
41.	Lavender (flowers)	Pasty, oily
42.	Flax (seeds)	Oil
43.	Flax (pomace)	Pasty, partly oily

44.	Linden (flowers)	Pasty
45.	Bay leaves	Pasty
46.	Lucerne	Pasty
47.	Lovage	Pasty + oily
48.	Lupulin	Liquid (green), yellow powder
49.	Raspberry (seeds)	Oil
50.	Carrot (seeds)	Oil
51.	Carrot (root)	Pasty
52.	Peppermint (leaves)	Pasty
53.	Giant Miscanthus	Pasty
54.	Chinese Miscanthus	Pasty
55.	Miscanthus sugar	Pasty
56.	Apricot	Solid (need to be washed from the separator with a solvent)
57.	Fucus	Pasty
58.	Calendula	Pasty
59.	Goldenrod	Pasty
60.	Borage (seeds)	Oil
61.	Black Alder	Semi-liquid
62.	Orthosyphon	Striped
63.	Hazelnut	Oil
64.	Walnut	Oil
65.	Aspen	Pasty, resinous
66.	Milk thistle (seeds)	Oil
67.	Milk thistle (endosperm)	Oil

68.	Oats (seeds)	Oil
69.	Saw palmetto (seeds)	Oil
70.	Paprika (ground dried pods)	Pasty (mainly dyes, carotenoids)
71.	Japanese pearl beetle	Pasty
72.	Black, white, green pepper	Pasty + oily, main compound piperine
73.	Propolis	Pasty, oily
74.	Nettle (leaves)	Pasty
75.	Orange (peel)	Pasty, partly oily (essential oils)
76.	Indochinese rupture	Liquid, main compound - lycopene
77.	Wheat (sprouted)	Oil
78.	Japanese knotweed	Pasty (resin extract)
79.	Allseed	Pasty (resin extract)
80.	Sakhalin knotweed	Pasty (resin extract)
81.	Black locust (bark, wood, bark+wood)	Pasty (resin extract)
82.	Sea buckthorn	Pasty
83.	Rosemary	Pasty, main compounds - carnosol and carnosic acid
84.	Rugosa rose (seeds)	Oil
85.	Rose Canina (seeds)	Oil
86.	Corner oversized	Pasty (resin extract)
87.	Chamomile (basket)	Pasty
88.	Rice (sprouts)	Oil
89.	Rapeseed (seeds)	Oil
90.	Rapeseed (pomace)	Pasty, partly oily
91.	Sunflower (seeds)	Oil

92.	Willowleaf sunflower	Pasty (resin extract)
93.	Pine (wood)	Pasty
94.	Pine (bark)	Pasty
95.	Pine (wood chips)	Pasty
96.	Prairie Spartina	Pasty (resin extract)
97.	Sage	Pasty
98.	Spirulina	Pasty
99.	Stevia	Pasty
100.	Mallow	Pasty, oily, depending on the part of the plant
101.	Teasel (herbs)	Pasty
102.	Jerusalem artichoke	Pasty (resin extract)
103.	Poplar (wood, bark, chips)	Pasty (resin extract)
104.	Peat	Liquid
105.	Strawberry (seeds)	Oil
106.	Tobacco (leaves)	Pasty
107.	Vilcacora (Uncaria Tomentosa Liana Bark)	Pasty
108.	Willow and purple willow	Pasty (resin extract)
109.	Evening primrose	Oil
110.	Cherry (stones)	Oily, with a pasty part
111.	Maruna pyrethrum	Pasty (very thick)
112.	Acorns	Pasty
113.	Cranberries	Pasty