

BIBLIOGRAPHY OF CHONDRUS N.F.V

by

FLORENCE ELIZABETH BLOSS

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SCHOOL OF PHARMACY

A THESIS SUBMITTED FOR THE DEGREE OF

GRADUATE IN PHARMACY

UNIVERSITY OF WISCONSIN

1929.

Morison, R.

1715

(Chondrus)

Plant Hist. Univers. Oxaniae., 2nd Ed., V.3., T.2. (Tserch Handbuchs der Pharmakog. V.2., p. 286; Fluickiger's Pharmakognosie., 3rd Ed., p.284).

The original was not available.

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Gmelin, J.G.

1747

*Fucus ceranoides.*

Hist. Fucus., p.115., t.7, fig. 1. (Species Algarum., 1., p. 219, Atlas Medizalpflanzen., VI, p. 3.)

The original was not available.

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Linne, C.

1759

*Fucus crispus.*

System naturae (10th ed.) V.2, p. 718. (Am. Jour. Sci. & Arts. 26, p. 389; Am. Jour. Pharm., 6, p. 204; U.S. Dispens., 4th ed., p. 1153; U. S. Dispens. 5th ed., p. 210; Flora Medica, p. 631; U.S. Dispens., 7th ed., p. 210; U.S. Dispens. 9th ed., p. 216; U.S. Dispens., 10th ed., p. 216; U.S. Dispens., 12th ed., p. 249; U.S. Dispens. 13th ed., p. 259; U.S. Dispens., 14th ed., p. 272; U.S. Dispens., 15th ed., p. 421; U.S. Dispens., 17th ed., p. 378; U.S. Dispens., 19th ed., p. 332; U.S. Dispens., 20th ed., p. 327; U.S. Dispens. 21st ed., p. 330; King's Am. Dispens., 18th ed., p. 524; Nat. Dispens., 2nd ed., p. 409; Nat. Dispens., 3rd ed., p.446; Nat. Dispens., 5th ed., p.471; Species Algarum., 1., p. 219).

The original was not available.

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Hudson, W.

1762

*Fucus lumbricalis.*

Flora anglica., 1st ed., p.-- (Fluckiger's Pharmakognosie, 3rd ed., p.282).

The original was not available.

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Linne, C.

1767

*Fucus crispus*

Mantissa, p. 134, (Atlas Medezalpflarizen, V.i., p. 3).

The original was not available.

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Hudson, W.

1778

*Fucus fastigiatus.*

Flora anglica., 2nd ed., p -. (Fluckiger Pharmakognosiz., 3rd ed., p. 282).

The original was not available.

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Allione, C.

1785

*Fucus ceramoides.*

Pedem., V.2., p. 330. (Atlas Medezalpflanzen., V.I., p. 3.)

The original was not available.

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Lamouroux, J.V.F.

1805

(*Chondrus polymorphous*)

Dissertations sur plusieurs especies, (Fluckiger Pharmakognosie., 3rd ed., p. 281; Nat. Dispens., 3rd ed., p. 446; Nat. Dispens., 5th ed., p. 472).

The original was not available.

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Turner, D.

1809

*Fucus crispus*

Hist. Fuc., 2., p. 216. (Am. Jour. Sci. & Arts, 26, p. 389; Am. Jour. Pharm. 6, p. 204; Flora Medica, p. 631).

The original was not available.

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Lamouroux, J.V.F.

1813

Essai sur les genres de la famille des Thalassiophytes non

arti culees (*Chondrus crispus* Stackhouse).

Ann. Mes., 20., p. 126 (Atlas Medezalpflanzen., V.I., p. 3)

The original was not available.

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Lyngbye, H.C.

1819

*Chondrus crispus*

Tentamen's Hydrophytologiae Danicae, p. 26, t.4. (Am. Jour. Sci. & Arts, 26, p. 389; Amer. Jour. Pharm., 61, p. 204; Flora Medica, p. 631; U.S. Dispens. 19th ed., p. 332; U.S. Dispens., 20th ed., p. 328; U.S. Dispens., 21st ed., p.331; Nat. Dispens., 3rd ed., p. 446; Nat. Dispens. 5th ed., p. 471; A Companion to the U.S.P. 1st ed., p. 325; Fluckiger's Pharmacognosie., 3rd ed., p.280; Atlas Medizinalpflanzen, V.1., p.3).

Gives an account of the structure, with illustration of *Chondrus crispus*.

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Agarah, C.A.

1823

*Sphaerococcus crispus*.

Species algarum, V.1, p. 219; (Am. Jour. Sci. & Arts 26, p. 389; Am. Jour. Pharm., 6, p. 204; U.S. Dispens., 4th ed., p. 1153; U.S. Dispens., 5th ed., p.210; Flora Medica, p. 631; U.S. Dispens., 7th ed., p. 210; U.S. Dispens. 9th ed., p. 216; U.S. Dispens., 10th ed., p. 216; U.S. Dispens., 12th ed., p. 249; U.S. Dispens., 13th ed., p. 259; U.S. Dispens., 14th ed., p. 272; U. S. Dispens., 15th ed., p. 421; U.S. Dispens., 17th ed., p. 378; U.S. Dispens., 19th ed., p. 332; King's Am. Dispens., 18th ed., V.1, p. 524; Nat. Dispens. 2nd ed., p. 409; Nat. Dispens., 3rd ed., p. 446; Nat. Dispens., 5th ed., p. 471; Fluckiger's Pharmacognosie., 3rd ed., p. 281).

Gives technical description four scientific names with references and ten varieties with synonyms and references.

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Agarah, C.A.

1823

*Sphaerococcus crispus*.

Spec., 1., p. 256. (Atlas Medizalpflanzen., V.1, p.3).

Gives preparation and uses of corrogeen.

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Goodenough, S. & Woodward, S.

1830

*Gigartina mamillosa*.

A Synoptical table of British Organic Remains - p -. (U.S.Dispens., 20th. ed., p. 330; Pharm. Era., 47, p. 205).

The original was not available.

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Greville, R.K.

1830

*Chondrus canaliculatus.*

Algae Britannicae, - p -. (Fluckiger Pharmakognosie., 3rd ed., p. 281).

The original was not available.

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Greville, R.K.

1830

*Chondrus crispus.*

Algae Britannicae, p. 129 to 150. (Am. Jour. Sci. & Arts, 26, p. 389; Am. Jour. Pharm., 6, p. 204; U.S. Dispens., 4th ed., p. 1153; U.S. Dispens., 5th ed., p. 210; Flora Medica, p.631; U.S. Dispens., 7th ed., p. 210; U.S. Dispens., 9th ed., p. 216; U.S.Dispens., 10th ed., p. 216; U. S. Dispens., 12th ed., p. 249; U. S. Dispens., 13th ed., p. 259; U. S. Dispens., 14th ed., p. 272; U.S. Dispens., 15th ed., p. 421; U. S. Dispens., 17th ed., p. 378; U. S. Dispens., 19th ed., p. 332; Nat. Dispens., 2nd ed., p. 409; Am. Jour. Pharm., 6, p. 204).

The original was not available.

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Greville, R. K.

1830

*Chondrus mamilosa.*

Algae Britannicae, p.-. (King's Am. Dispens., 18th ed., V.1, p. 524; Nat. Dispens., 2nd ed., p. 409; Nat.Dispens., 3rd ed., p. 446; Nat. Dispens., 5th ed., p. 471; Proc. Am. Pharm. Assoc., 17th ed., p. 166).

The original was not available.

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Guimpl, F. & Schlechtindal, P.

1830

*Sphaerococcus crispus.*

Pfl. Pharm. Germ. III, p. 112., T. 297, fig., 3., t.298., fig. A.B.C. (Atlas Medezalpflanzen., V.1., p. 3).

The original was not available.

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Feuchtivanger, L.

1834.

Carrageen or Irish Moss.

Am. Jour. Sci. and Arts, 26, p. 389; Am. Jour. Pharm., 6, p. 204; (U. S. Dispens., 3rd ed., p. 1081; U. S. Dispens., 4th ed., p. 1153; U. S. Dispens., 5th ed., p. 210; U. S. Dispens., 7th ed., p. 210; U. S. Dispens., 9th ed., p. 216; U. S. Dispens., 10th ed., p. 216; U. S. Dispens., 12th ed., p. 249; U. S. Dispens., 13th ed., p. 259; U. S. Dispens., 14th ed., p. 272; U. S. Dispens., 15th ed., p. 421; U. S. Dispens., 17th ed., p. 378).

Gives three scientific names for the plant, description, Habitat, constituents, properties, and directions for its medicinal and culinary uses.

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Meyer, L.

1835

De fuco crispo sur lichene carrageno.

(S.G.L. index) V. 5., p. 217.

The original was not available.

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Wolffsheim, F. S.

1836

Über die anwendung des Lichen Carrageen.

Jour. Dis. pract. Heilk., 82, pt. 4, p. 119 (S.G.L. index V.5., p. 217).

The original was not available.

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Wood, G. B. and Bache, F.

1836

Irish Moss

U. S. Dispens., 3rd ed., p. 1081.

Lists five names, gives habitat, description, constituents, and uses of chondrus.

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Dierbach, J. H.

1837 & 1843

Chondrus. ●

Die nevisten Endtöckungen in der Mat. Med., V.1, 1837 p. 50, and V. 2., 1843, p. 271, (Fluckiger Pharmakognosie., 3rd ed., p. 284).

The original was not available.

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Lindley, J.

1838

Chondrus.

Florae Medica, p. 631. (Am. Dispens., 6th ed., p. 235; Am. Dispens., 8th ed., p. 225; Am. Dispens., 10th ed., p. 225; King's Am. Dispens., 18th ed., p. 225, King's Am. Dispens., 18th ed., V. 1, p. 525.)

Describes chondrus as to color, size, shape, habitat and use in medicine.

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Harvey, W. H.

1841

Chondrus Crispus Stackhouse.

Manual of British Algae, p. 77. (Atlas Medezalpflanzen., V.1., p. 3; Wettstein's Handb. der syst. Bot., V.1, 1879.

The original publication was not available.

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Agarah, J. G.

1842

Gigartina Mamillosa.

Alg. Med. p. 104. (Ferch Handbuchs der Pharmacog., V.2, p.2; U. S. Dispens., 17th ed., p. 378; U. S. Dispens. 18th ed., p. 524; U. S. Dispens., 19th ed., p. 333; U. S. Dispens., 20th ed., p. 327; Nat. Dispens., 5th ed., p. 471; A Companion to the U.S.P., 1st ed., p. 325; Pharm. Era., 47, p. 205).

The original was not available.

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Periera, J.

1842

Chondrus crispus.

Materia Medica & Therap., 2nd ed., p. 874. (Flora Medica, p. 632; Am. Dispens., 6th ed., p. 235; Am. Dispens., 8th ed., p. 225; Am. Dispens., 10th ed., p. 225; Am. Jour Pharm., 26, p. 177).

Gives history, general characteristics, habitat, physical properties, constituents, physiological effects and uses of Chondrus crispus.

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Dupasquier, A.

1843

Sur l'existence du boome et de liade daus le Fucus crispus, et sur un procede propre a y faire reconnaitre par une seule experience, ainsi que daus les eponges, les coraux, la mousse de Corse it les autres substance marines analogues,

la presence de ces deux principes.

Jour. de pharm., et de chim., 36., p. 112; (U.S. Dispens., 17th ed., p. 379; U. S. Dispens., 19th ed., p. 333; U. S. Dispens., 20th ed., p. 328).

Gives methods of testing for bromides and iodides in chondrus and similar substances.

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Wood, G. B. & Bache, F.

1843

Irish Moss.

U. S. Dispens., 5th ed., p. 210; U. S. Dispens., 7th ed., p. 210; U. S. Dispens., 9th ed., p. 216; U. S. Dispens., 10th ed., p. 216;)

Gives description, constituents, and uses of chondrus.

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Kuetzing, F. T.

1843

*Chondrus crispus* Stackhouse.

Phys. Gen., T. 73, fig. 3. (Atlas Medizalpflanzen., V.1., p. 3, Phy. Gen. 1846, T. 68).

The original was not available.

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Monchon, E.

1844

*Chondrus*.

J. de med de Lyon, 7, p. 114. (S. G. L. index V. 5, S.1, p. 217; Repertoire de pharmacie., 1, p. 75; Am. Jour. Pharm., 17, p. 189; Am. Hour. Pharm., 33, p. 74; Proc. Am. Pharm. Assoc., 22, p. 96).

The original was not available.

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Kuetzing, F. T.

1849

*Mastocarpus mamillosus*.

Spec. Alg., 735. (King's Am. Dispen., 18th ed., 1, p. 524; Nat. Dispen., 2nd ed., p. 409; Nat. Dispens., 3rd ed., p. 446; Nat. Disp., 5th ed., p. 471; Fluckiger's Pharmakognosie., 3rd ed., p. 280; Atlas Medezalpflanzen., V. 1, p. 3)

The original was not available.

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King, J. & Newton, R. S.

1852

Chondrus crispus.

Electric Dispens. of the U.S.A., 1st ed., p. 121.

Gives the history, habitat, description, properties, and uses of chondrus crispus.

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Melzar, A. P.

1860

On Carrageen.

Proc. Am. Pharm. Assoc., 9, p. 165; (U. S. Dispens., 14th ed., p. 272; U.S. Dispens., 15th ed., p. 421; U. S. Dispens., 17th ed., p. 378; U. S. Dispens., 19th ed., p. 333; U. S. Dispens., 20th ed., p. 328; Fluckiger's Pharmacognosie., 2nd ed., p. 252; Fluckiger's Pharmacognosie., 3rd ed., p. 280; Am. Jour. Pharm., 33, p. 74).

Tells to what extent carrageen is collected on the coast of New England for the supply of commerce.

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King, J.

1864

Chondria crispus.

Am. Dispens., 6th ed., p. 235; Am. Dispens., 8th ed., p. 225; Am. Dispens., 10th ed., p. 225.

Gives natural order, description, history, habitat, properties, and uses of chondrus crispus.

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Blondean, C.

1865

Sur le Fucus crispus.

Jour. de Pharm. et de chim., 81, p. 159; (U. S. Dispens., 13th ed., p. 259; U. S. Dispens., 14th ed., p. 272; U. S. Dispens., 21st ed., p. 331).

Gives habitat, method of preparation, constituents, and domestic uses of chondrus.

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Wood, Geo. B. & Bache, F.

1865

Irish Moss.

U. S. Dispens., 12th ed., p. 249; U. S. Dispens., 13th ed., p. 259.

Gives description, constituents, habitat and uses of chondrus.

Bates, G. H.

1867

On the gathering and curing of Carrageen in Massachusetts.

U. S. Agr. Rep't. for 1866, p. 423; (Am. Jour. Pharm., 39, p. 417; Am. Jour. Pharm., 40, p. 417; U. S. Dispens., 14th ed., p. 272; U. S. Dispens., 15th ed., p. 421; U. S. Dispens., 17th ed., p. 378; U. S. Dispens., 19th ed., p. 333; U. S. Dispens., 20th ed., p. 328; Fluckiger's Pharmakognosie., 3rd ed., p. 281; Pharm. Journ., 11, p. 298).

Gives suborder, habitat, range, methods of gathering and curing, and uses of chondrus crispus.

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Fluckiger, F. A. & Obermaier, L.

1868

Ueber den Carrageen - Schleim.

Schw. Wochs. f. Pharm. u. Chem., 6, p. 85. (Jahresbericht-Pharmacog. Pharmacie, and Toxicologie., 28, p. 32; Am. Jour. Pharm., 40, p. 392; Am. Jour. Pharm., 41, p. 128; Proc. Am. Pharm. Assoc., 17, p. 166; Buchner's News Repertorium Pharmacie., 17, p. 166).

Lists uses of Carrageen and compares mucilage of Chondrus crispus with other mucilages used in pharmacy.

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Planchow, G. & Collin, -

1869

Chondrus.

Drog. Simpl., p. 15. (Tserch Handbk. d. Pharmatognosie., V. 2, p. 286).

The original was not available.

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1869

New Uses of Corrageen.

Am. Exchange & Review, (9), p. -. (Drugg. Circ., 13, p. 35; Am. Jour. Pharm., 41, p. 128).

Discusses the uses of Chondrus in preparation of glue and isinglass for which it is an excellent substitute.

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Farlow, W. G.

1873

List of the sea-weeds or marine algae of the South Coast of New England.

Rep't. U. S. Fish Commission, 1871, 1872, pp. 281-294. (Annals N. Y. Acad. Sci., 5, p. 238).

Lists Chondrus with the very common and with the cryptonemiaceae.

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Dalman, J.

1873

Gigartiva acicularis as an Adulterant of Carrageen Moss.

Report de Pharm., 1, p. 696. (Am. Jour. Pharm., 46, p. 125, Pharm. Jour. 33., p. 661; Proc. Am. Pharm. Assoc., 22, p. 96).

Describes gigartiva acicularis, compares it with carrageen moss, gives its constituents, and tells of its use as an adulterant for carrageen moss.

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Lefort, J.

1875

Report on Cataplasm of Fucus Crispus.

Jour. de Pharm. et de Chim., 21, p. 120. (Am. Jour. Pharm., 49, p. 235; Proc. Am. Pharm. Assoc., 25, p. 61).

Discusses the "secret remedies" prepared from Fucus crispus and gives directions for the preparation of the cataplasma chondrus.

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Church, A. H.

1876

(Plant Analysis)

Jour. Bot. (London) 159, p. 71. (Proc. Am. Pharm. Assoc., 25, p. 117; Archiv. der Pharm., 210, p. 61; Fluckiger's Pharmakognosie., 3rd ed., p. 284).

Gives an analysis of chondrus crispus. Five groups of substances with per cent of each.

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1877

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The Carrageen crispus.

Scientific American, 37, p. 17. (Drugg. Circ., 22, p. 119).

Gives habitat, method of gathering, curing, constituents and use of *chondrus crispus*.

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Agarah, J. C.

1879

*Chondrus crispus* Stackhouse.

*Floridernes morphologica*, p. 246. (Atlas Medizinalpflanzen., V. 1., p. 3; Tscherch. Handbk. Phlog., V. ". pt. 1, p. 284).

Original was not available.

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Farlow, W. G.

1879

Marine Algae of New England.

Rep't. U. S. Com. of Fish and Fisheries for 1878, p. 1. (U. S. Dispens., 19th ed., p. 333; U. S. Dispens., 20th ed., p. 328; U. S. Dispens., 21st ed., p. 331; Annals on N. Y. Acad. Sci., 5, p. 238).

Lists and described algae found on the coast of New England.

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Fluckiger, F. A. & Hanbury, D.

1874

*Chondrus crispus*.

Pharmacographia, 1st ed., p. 679; (Pharmacographia, 2nd ed., p. 748; U. S. Dispens., 15th ed., p. 421; U. S. Dispens., 17th ed., p. 379; U. S. Dispens., 19th ed., p. 333; U. S. Dispens., 20th ed., p. 329; King's Am. Dispens., 18th ed., V. 1, p. 525).

Gives eight different names, botanical origin, history, description, structure, composition, commerce, use and substitutes of *Chondrus crispus*.

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Luerssen, C.

1879

Gigartineae.

Handbk. du. Syst. Bot., 1, p. 123. (Atlas Medezinalpflanzen, V.1, p.3; Fluckiger's Pharmakognosie, 2nd ed., p. 252).

Gives illustrations of the plant with a description, synonyms, constituents, and an account of the collection of *chondrus*.

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Stille, A. & Maisch, J. M.

1879

Chondrus U.S.

Nat. Dispens., 2nd ed., p. 409; Na. Dispens., 3rd ed., p. 446.

Gives common names, natural order, part used, origin, history, habitat, description, constituents, substitutes, allied drugs, preparation, medical action, and uses of Chondrus.

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Wood, G. B. & Wood, H. C.

1879

Irish Moss.

U. S. Dispens., 14th ed., p. 272.

Gives discription, habitat, constituents and uses of Chondrus.

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Bentley, R. & Tremien, H.

1880

Chondrus crispus.

Med. Plants, V. 4, p. 305. (U. S. Dispens., 15th ed., p. 421; U. S. Dispens., 17th ed., p. 378; U. S. Dispens., 19th ed., p. 332; Nat. Dispens., 3rd ed., p. 446, Nat. Dispens., 5th Ed., p. 471; Tscherch Handbk. du Pharmakog., p. 1; Atlas Medizalpflanzen., V. 1, p. 3).

Gives discription, habitat, part used, collection, preparation, general characteristics, composition, properties, and uses of chondrus.

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Fluckiger, F. A.

1881

Corrogeen.

Fluckiger's Pharmakognosie., 2nd ed., p. 252; (Fluckiger's Pharmakognosie., 3rd ed., p. 281; Nat. Dispens., 3rd ed., p. 446; Nat. Dispens., 5th ed., p. 472.)

Gives name (scientific and common), occurrence, collection, anatomy, constituents, and history of Chondrus.

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Husted, A. B.

1881

Emulsions of Mucilage of Irish Moss and Fixed Oils.

Proc. N. Y. Ph. Assoc., 3, p. 138. (Am. Jour. Pharm., 53, p. 480; Am. Jour. Pharm., 59, p. 358; Pharm. Journ., 41, p. 49).

Discusses the definition of emulsion. Discusses the preparation and uses of mucilage of *Chondrus crispus*.

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Wheeler, J.

1882

Iodine yielding Algae.

Pharm. Jour., 12, p. 642. (Am. Jour. Pharm., 54, p. 124; Drugg, Circ., 26, p. 68).

Describes experiments and tests by which the relative yield of iodine is found in *Chondrus*.

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Wittstein, G. C.

1882

Karragaheen.

Handwörterbuch der Pharmakognosie des Pflanzwrichs p. 385. (Atlas Medezalpflanzen., V. 1., p. 3).

Gives synonyms, scientific names, percentage of constituents, habitat, and collection of *chondrus*.

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Berg, O. C. & Schmidt, C. F.

1883

*Sphoerococcus crispus* Agardh.

Darstell. Beschr., 1st ed., V. 1., T.33., Fig. A-E; Ibid., 2nd ed., V. 4., p. 75., pl. 162.

Gives names, scientific and common, discription, habitat, constituents, uses, and bibliography of the drug.

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Pabst, G. & Kohler, H.

1883

*Chondrus crispus* and *Gigartina Mamillosa*.

Atlas Medizalpflanzen V. 1, p. 803; (Tschirch Hanbuchs du Pharmakog., V. 2, p. 2).

Gives names, scientific and common, family discription of plants, distribution, derivation of names and history, part official, preparation of the drug, constituents, uses, bibliography, pharmacoconal, history of the drug and its preparations, with a full page colored illustrations.

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Wood, H. C., Remington, J. P. Sadtlis, S. P.

1883

Irish Moss.

U. S. Dispens., 15th ed., p. 421; U. S. Dispens., 17th ed., p. 378; U. S. Dispens., 19th ed., p. 332.

Gives synonyms, discription, habitat, constituents, properties, and uses of Chondrus.

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Oldberg, O. & Wall, O. A.

1884

Chondrus.

A Companion to the U. S. P., 1st ed., p. 325.

Gives names (scientific and common) origin, habitat, discription, constituents, and medicinal uses of Chondrus.

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Stanford, E. C.

1884

Economic Application of seaweeds.

Pharm. Journ., 14, p. 1012 (Fluckiger's Pharmakognosie., 3rd ed., p. 284).

States that Chondrus contains very little iodine.

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Rabenhorst, L.

1885

Chondrus crispus.

Cryptogamenflora., V. 2, p. 133 (Handbk. on Pharmakog., 2, p. 286).

Gives description, habitat, and characteristics of Chondrus with figures.

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Shack, A.

1886

Ueber die Veranderungen, welche carrageen beim Trochnen erleidet.

Pharm. ztg., V. 31, p. 87. (U. S. Dispens., 17th ed., p. 378; U. S. Dispens., 19th ed., p. 333; U. S. Dispens., 20th ed., p. 328; U. S. Dispens., 21st ed., p. 331).

Gives habitat, constituents, and discription of Chondrus.

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Boa, P.

1887

Irish Moss as a Substitute for Gum Daria in Pharmacy.

Am. Jour. Pharm., V. 59, p. 358.

Discusses the mucilage contained in Irish Moss, uses, preparation and combination with Acaria.

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Editor

1887

Algae. The Seaweed Order.

Pharm. Record, Vol. 7, p. 357.

Gives habitat, collection, preparation, and medicinal uses of *Chondrus crispus*.

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Federer, E. C.

1887

Imitation Gum Arabic.

Pharm. Era, 1, p. 146. (U. S. Dispens., 17th ed., p. 379; U. S. Dispens., 19th ed., p. 334; U. S. Dispens., 20th ed., p. 329; U. S. Dispens., 21st ed., p. 331).

"Peculiar pectin called corrageenin obtained from Irish Moss, but is found to have mild adhesive properties. Could be used as a size in paper manufacture."

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Fluckiger, F. A.

1887

Nachweisring des Jods in Laminaria.

Archiv. d. Pharm., 225, p. 519. (Am. Jour. Pharm., V. 62, p. 128).

The preparation of the drug for the isolation of iodine is discussed.

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Haedicke, J. & Bauer, R. W. & Tollens, B.

1887

Untersuchungen über die aus coragheenmoos und Raffinose entstehenden reduzierenden zuckerarten.

Dissertation Goettingen, 36 pp. (Fluckiger's Pharmatog., 3rd ed., p. 283; Ann. d. Chem., 238, p. 302; Pharm. Post, 1887, No. 49, p. 785; Pharm. Ztg. 1887, p. 308).

Gives constituents and percentage content in *Chondrus crispus*.

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Painter, E.

1887

Irish Moss gelatin.

Am. Pharm. Assoc., 35, p. 578. (Am. Jour. Pharm., 59, p. 535; U. S. Dispens., 17th ed., p. 378; U. S. Dispens., 19th ed., p. 334; U. S. Dispens., 20 ed., p. 329).

Discusses the use of *Chondrus* mucilage as an emulsifier. It is used in the preparation of the emulsion of cod liver oil. Methods of preserving the mucilage are discussed also.

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Patton, J. F.

1888

Irish Moss in the preparation of Emulsions.

Proc. Pa. Pharm. Assoc., 11, p. 31. (Am. Journ. Pharm., 60, p. 379).

Discusses the advantages and disadvantages of mucilage of *Chondrus* as an emulsion.

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Committee

1888

Mucilago Chondri.

National Formulary, 1st ed., Part II, p. 103. (U. S. Dispens., 17th ed., p. 379).

Gives formulas and uses of mucilage of Irish Moss, and methods of preparation.

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Stawdt, A. J.

1888

Moss Mucilages as emulsifiers.

Am. Jour Pharm., 60, p. 170. (U. S. Dispens., 17th ed., p. 379; U. S. Dispens., 19th ed., p. 334; U. S. Dispens., 20 th ed., p. 329; U. S. Dispens., 21st ed., p. 331).

Discusses the constituents qualitatively and quantitatively of *Chondrus*. Also the use of the mucilage as an emulsifier.

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Itarlie, L. V.

1889

Ueber das Vorkommen von Jodium in Fucus Vesiculosus and Chondrus crispus.

Arch. d. Pharm., 227, p. 1132. (Am. Jour. Pharm., 62, p. 128; Pharm. Era, 4, p. 189).

Discusses the content and isolation of Iodine from Chondrus.

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Stille, A., Maisch, J. M., Caspari, C., Maisch, H. C.

1894

Chondrus U. S.

Nat. Dispens., 5th ed., p. 471.

Gives names, part used, natural order, origin, description, habitat, constituents, admixtures, allied drugs, pharmaceutical preparations, action and uses of Chondrus.

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Karsten, H.

1895

Chondrus.

(Atlas Medizinalpflanzen, 1, p. 3).

Gives names (scientific and common) and a description with illustrations of Chondrus.

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Wiegand, T. S.

1896

Irish Moss.

Am. Jour. Pharm., 66, p. 596. (U. S. Dispens., 19th ed., p. 333; U. S. Dispens., 20th ed., p. 328; U. S. Dispens., 21st ed., p. 330).

Discusses the collection and preparation of Chondrus for commerce.

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Schmitz, E. & Hauptfleisch, P.

1897

Chondrus Gigartinae.

Engli. Prautl. Nat. Pflanzenf., V. 1, p. 356. (Tschersch Handbk, du Pharmakog., V. 2, pt. 1, p. 286; Atlas Medezalpflanzen, V. 1, p. 3).

Gives a technical description of the two genera and of some of the species with one figure of gigartinae mamilliosa.

Filter, H. W. & Lloyd, J. N.

1898

Chondrus.

King's Am. Dispens., 18th ed., V. 1, p. 524.

Gives seven names, class, common names, botanical source, discription, habitat, history, tests, chemical composition, action, medicinal use, dosage and related species and drugs of Chondrus crispus.

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Berg, O. K. & Schmidt, C. F.

1899

Chondrus crispus.

Atlant du officinellin pflanzen V. 4., 2nd ed., p. 75, T. 162.  
(Tscherch Handbk. du Pharmakog., V. 2, Pt. I, p. 286; Atlas Medezinalpflanzen, V. 1, p. 3).

Gives names (common and scientific), habitat, uses, constituents and bibliography of the drug.

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Kraemer, H.

1899

Some Notes on Chondrus.

Pros. Penn. Pharm. Assoc., p. 113. (U.S. Dispens., 19th ed., p. 333; U. S. Dispens., 20th ed., p. 328; U. S. Dispens., 21st ed., p. 331; Proc. Am. Pharm. Assoc., 48, p. 568; Am. Jour. Pharm., 71, p. 351, 479).

Discusses the morphological characters of Chondrus, its collection, and some reasons for the modification of the definition of the U. S. P. concerning the drug.

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Gueguen, F.

1904

Le Carragaheen. ses emplois pharmaceutiques et industriels, et sa recolte en Brejogne.

Bull. dis sci. pharmacol., 10, p. 225. (Am. Drugg. & Pharm. Rec., 46, p. 70; Schew Woch. f. Chem. Pharm. 43, p. 76; Suedd Aopth. Ztg., 45, p. 112; Deutch. Am. Apoth. ZTG., 26, p. 10; Dig. Com. U.S.P. & N.F., 1905, p. 149.

Discusses the habitat, gathering, and preparation of the drug of Chondrus for the market.

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Roder, P.

1908

(Chondrus)

Jahresher. d. Pharm., p. 24 (Dig. Com. on U.S.P. & N.F. 1908, p.228).

Reports on three samples of Chondrus, giving their ash content.

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Stackhouse, J.

1908

Chondrus crispus.

Maladus Remediec and Physicians of Colonial Days in Burlington County, N. J. p. 13. ( U. S. Dispens., 17th ed., p. 378; U. S. Dispens., 20th ed., p. 327; U. S. Dispens., 21st ed., p. 330; King's Am. Dispens., 18th ed., V. 1, p. 524; Proc. Am. Pharm. Assoc., 17th ed., p. 166; Proc. Am. Jour. Pharm., 17th ed., p. 150; Pharm. Era., V. 47, p. 205; Atlas Medezalpflanzen., V. 1, p. 3, T. 126).

Gives a description of Chondrus and discusses uses of the plant.

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Tunmann, O.

1909

Anatomie und Inhaltsstoffe von Chondrus crispus Stackhouse.

Apoth. Ztg., 24, p. 151. (U. S. Dispens., 20th ed., p. 328; U. S. Dispens., 21st ed., p. 331; Dig. Com. on U.S.P. & N.F., 1909, p. 314; Proc. Am. Pharm. Assoc., 57, p. 150).

Describes the anatomy and discusses the constituents of Chondrus crispus.

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Hartwich, C.

1910

Chondrus.

Apoth. Ztg., 25, p. 1045. (Dig. Com. U.S.P. & N. F., 1910, p. 142).

Uses an iodine test for determining the presence of sulphurous acid and sodium theosulphate.

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Knabenshen, S. S.

1910

Irish Moss.

Canad. Druggist., 22, p. 22. (Dig. Com. U.S.P. & N.F., 1910, p. 391).

Notes on gathering and preparation of Irish Moss for the market.

La Wall, C. H. & Bradshaw, H. A.

1910

Chondrus.

Proc. Am. Pharm. Assoc., 58, p. 752. (Dig. Com. U. S. P. & N. F., 1910, p. 391).

Reports on the percentage of ash found in Chondrus.

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Tassitly, E. & Leroide, J.

1910

Sur les proportions relations d'arsenic dans les algues marines et leurs derives.

Bull de Sci. Pharmacol., 17, p. 582. (Proc. Am. Pharm. Assoc., 59, p. 345; Pharm. Journ., 85, p. 761).

Among other marine products he examined Chondrus, both natural and bleached and found arsenic present.

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Caesar & Loritz

1911

Carrageen

Pharm. Ber., 5, p. 16. (Dig. Com. U.S.P. & N. F. 1911, p. 391; Dig. Com. U.S.P. & N.F., 1914, p. 233; Jahres Ber., 1914, p. 56).

The valuation of Chondrus includes moisture content, ash content, and tests for sulphurous acid, according to the Pharmacopocie Germanica V.

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Evans Sons Lascher & Webb.

1911

Irish Moss.

Analytical Notes for 1910, p. 37. (Dig. Com. U.S.P. & N.F., 1911, p. 391).

Gives percentage of arsenic, ash, calcium sulphate, adulterant of Chondrus. Also gave its gelatinising value as being below normal.

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Lloyd, J. U.

1911

Chondrus.

Lloyd Libr. Bull., No. 18, p. 16. (Dig. Com. U.S.P. & N.F., 1911, p. 300).

The use of chondrus as a domestic medicine is discussed.

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Sollmann, T.

1911

The Response of Gums and Similar Substances to  
Moore's Reaction.

Am. Journ. Pharm., 83, p. 176. (Dig. Com. U.S.P. & N.F., 1911, p. 300).

Discusses the behavior of Chondrus with sodium hydroxide  
and Fehling's solution.

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Evans Sons, Lescher & Webb.

1912

Irish Moss.

Analytical Notes for 1911, p. 37. (Dig. Com. U.S.P. & N.F., 1912, p. 300).

Gives ash content of a genuine sample of Chondrus and also  
states that the samples of French Moss are apparently closely  
allied species of Chondrus crispus.

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Needham, R. H.

1912

Chondrus.

Jour. Am. Pharm. Assoc., 1, p. 1345. (Dig. Com. U.S.P. & N.F., 1912, p. 238).

Gives report on the mucilaginous value and ash content of  
chondrus.

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Quiz Master

1912

Questions and Answers.

Pharm. Era, 45, p. 629.

Gives a definition, habitat, constituents, official, prepara-  
tion, dose and formula for the preparation of mucilage of  
chondrus.

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Schneider, A. & Richter, R.

1912.

Chondrus.

Pharm. Zentralh., 53, p. 227. (Dig. Com. U.S.P. & N.F., 1912, p. 238).

Reports on the amount of ash and sulfurous acid found in  
chondrus.

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Tschirch, A.

1912

Carrageen.

Handbuchs der Pharmakognosie., V. 2, pt. 1, p. 284.

Gives synonyms, etymology, illustrations, morphological, structure, description, and bibliography.

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Evans Sons Loescher & Webb

1913

Irish Moss

Analytical Notes for 1912, p. 38. (Dig. Com. U.S.P. & N.F., 1913, p. 238).

Gives per cent of ash in a genuine sample and samples of French Moss.

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Osborne, O. T.

1913

Useless drugs accepted for the next pharmacopeia.

Jour. Am. Med. Assoc., 60, p. 1429. (Dig. Com. U.S.P. & N.F., 1913, p. 236).

States that the U. S. P. IX has accepted a useless drug in Chondrus.

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Pearse, A. S.

1913

The Chondrus Zone.

Bull. Wis. Nat. Hist. Soc., n. S. V. 11, p. 19.

In discussing the fauna of the Rock beaches at Nahant, Mass. places this zone as the fifth from the top and next to the last. Describes the appearance of the plant and gives synonyms and two figures.

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Roberts, J.G.

1913

Irish Moss.

Proc. Penn. Pharm. Assoc., 36, p. 88. (Dig. Com. U.S.P. & N.F., 1913, p. 236; Jour. Am. Pharm. Assoc., 2, p. 973).

Gives the percentage of moisture determined in Chondrus.

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Roehr, C. M.

1913

Miscellaneous preparations.

Pac. Pharm., 6, p. 289. (Yr. Bk. Am. Pharm. Assoc., 2, p. 102; Dig. Com. U.S.P. & N.F., 1913, p. 236).

Gives formula and directions for making a mucilage of Chondrus which is used as a lubricant for surgeons gloves and instruments.

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1914

Chondrus.

Southern Pharm. Journ., 6, p. 547. (Dig. Com. U.S.P. & N.F., 1914, p. 233).

Gives description of chondrus with illustrations.

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Chairman U.S.P. Revision

1914

Changes in the New U. S. Pharmacopoeia.

Pharm. Era, 47, p. 205.

Gives the description, constituents, and tests of Chondrus crispus as proposed in the new U.S.P.

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Maines, E. L.

1914

Irish Moss, Bleached.

Jour. Am. Pharm. Assoc., 3, p. 425. (Dig. Com. U.S.P. & N.F., 1914, p. 233).

Gives the percentage of ash found in Chondrus.

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Tunmann, O.

1914

Corrageen.

Apoth. Ztg., 29, p. 91. (Dig. Com. U.S.P. & N.F. 1914, p. 233).

Gives habitat, collection and preparation of corrageen.

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(Editor)

1916

Cetraria & Chondrus.

Ber. Pharm. Ges., 26, p. 192. (Yr. Book Am. Pharm. Assoc., 5, p. 187).

Chondrus and its use in pharmaceuticals is discussed.

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Holmes, E. M.

1916

Chondrus

Pharm. Journ., 97, p. 484. (Dig. Com. U.S.P. & N.F., 1916, p. 171).

Gives source of the drug, and some points on gathering chondrus.

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Muller, P.

1916

Karrageengallerte al Massiermittel.

Munch med. Wehschr., 63, p. 851. (Chem. Zentralbl. 87, p. 158; Chem. Abstr., 11, p. 1879; Dig. Com. U.S.P. & N.F., 1917, p. 182).

Gives uses of a chondrus jelly for massage in preference to fats and oils.

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Rusby, H.H.

1916

Chondrus.

Jour. Am. Pharm. Assoc., 5, p. 538. (Dig. Com. U.S.P. & N.F. 1916, p. 171).

Chondrus is usually imported in unbleached condition, dirty and sandy.

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Bruntz, L. & Jaloux, M.

1918

Gigartina Mamillosa.

Plants Officinales et Plantes A. Drogue Medicamenteuses, 1st ed., p. 2.

Tabulates dates of Pharmacopoeias in which gigartina mamilliosa has been official.

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Remington, J.P., Wood, H.C. Jr.

1918

Irish Moss.

U. S. Dispens., 20th ed., p. 327; U.S. Dispens., 21st ed., p. 330.

Gives seven names, discription, constituents, habitat,  
and uses of chondrus.

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Ewe, G.

1919

Irish Moss.

Penn Pharm. Assoc., 42, p. 86. (Jour. Am. Pharm. Assoc., 8, p. 672; Dig. Com.  
U.S.P. & N.F., 1919, p. 207).

Speaks of rejection of chondrus because of excessive calcareous  
matter.

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Linde, O.

1920

Chondrus

Apoth. Ztg., 35, p. 450. (Dig. Com., U.S.P. & N.F., 1920, p. 229; Jahres-  
bericht der Pharmacie., 1920, p. 6).

Recommends that a short description of the anatomical struc-  
ture be included in the monograph for Chondrus in the German  
Pharmacopoeia.

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Lloyd, J. U.

1921

Chondrus (Irish Moss)

Origin and Hist. Pharm. Veg. Drugs, V. 1, p. 53.

Gives names of species official Chondrus been known for some time,  
chiefly used as a domenstic medicine, in the form of a decoction  
or infusion.

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Areschong, J. E.

Chondrus crispus Stackhouse.

Enumerations, 86. (Atlas Medezalpflanzen., V. 1, p. 3).

The original was not available.

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Lange, J.

N.D.

*Chondrus crispus*.

Scoenes Plantarum Officinalium Scandinaviae, pt. 39.

Colored plate of *Chondrus crispus* of Lyngb. taken from  
Flora Danicae pt. 2133.

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- Am. Drugg., V. 13 -20; 1884-1891.
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- British & Colonial Drugg. V. 12-68, 1887-1915.
- British & Colonial Pharmacist, V. 69-79, 1916-1926.
- Bull. Pharm., V. 7-42, 1893-1928.
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- Drugg Circular, V. 1-71, 1857-1927.
- Journ. Am. Pharm. Association, V. 1-16, 1912-1923.
- Journ. Materia Medica. 3-19, 1892-1926.
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- New England Drugg., V. 5-16, 1893-1904.
- New Remedies, V. 1-5. 1872-1883.
- Pharm. Era., V. 1-63, 1887-1925.
- Pharm. Journ., V. 1-119. 1847 - 1927
- Pharm. Record. V. 4-15. 1884-1893
- Pharm. Review, 14 - 26. 1896-1908
- Proc. Am. Pharm. Assoc., V. 1-59. 1852-1911.
- Western Drugg. V. 1-50. 1881-1928.
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- Barton, W.P.C.: Medical Botany. V. 1, 1817; V.2, 1818.
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- Comm. Pharmacopoeia, N. J. Hospt. 1816.
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7th ed., 1827; 9th ed., 1831 .
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1882, 1833, 1884, 1889, 1891, 1896.
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ed., 1891.
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- Linne, C. A.: *Linne Mat. Med.*, 2nd ed., 1772.
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- Millsbaugh, C.F.: *Med. Plants*, 2nd ed., 1892.
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UNITED STATES PHARMACOPOEIA 1820-1920 (0-X REVISIONS)

and

NATIONAL FORMULARY 1886-1926 (I-V EDITIONS).

HISTORY OF CHONDRUS.

U.S.P. - 1840 - S - p. 43.

Chondrus. Irish Moss.

Chondrus crispus (Greville, Alg. Brit.)

U.S.P. - 1850 - P - p.21.

Chondrus. Irish Moss.

Chondrus crispus (Greville, Alg. Brit.).

U.S.P. - 1860 - P - p. 25.

Chondrus. Irish Moss.

Chondrus crispus (Greville, Alg. Brit.).

U.S.P. - 1870 - P - p.26.

Chondrus. Irish Moss.

Chondrus crispus (Greville, Alg. Brit.).

U.S.P. - 1880 - p. 77.

Chondrus (Irish Moss)

Chondrus crispus Lyngbye, and Chondrus mammilosus Greville  
(Nat./Ord., Algae).

Yellowish or white, horny, translucent; many forked; when softened in water, cartilaginous; segments flat, wedge-shaped or linear; at the apex emarginate or / two lobed; it has a slight seaweed-odor, and a mucilaginous, somewhat saline / taste. One part of it boiled for ten minutes with 30 parts of water, yields a solution which gelatinizes on cooling.

U.S.P. - 1890 - p. 89.

Chondrus.

(Irish Moss. Carragheen)

Chondrus crispus stackhouse, and gigartina mamilliosa J. Agardh/  
Class Algae.

Yellowish or white, horney, translucent, many times forked; when softened in water, cartilaginous; shape of the segments varying from wedge-shaped to linear; at the apex emarginate or

two lobed. It has a slight sea-weed odor, and a mucilaginous somewhat saline taste. One part of it boiled for ten minutes with 30 parts of water yields a solution which gelatinizes on cooling, and is not colored blue by iodine T.S.

U.S.P. - 1900 - p.99.

Chondrus.

The dried plant of *Chondrus crispus* (Linne) Lyngbye (Fam. Gigar/tinaceae).

Usually in light yellow or yellowish white matted masses; the plants consist of a slender somewhat flattened base about one-half the length of the entire frond, which after repeated forking terminates in a number of palmately branching, somewhat enlarged, commonly emarginated or two-lobed segments; translucent, sometimes with fruit bodies embedded near the apex of the segment, somewhat cartilaginous; having a slight sea-weed odor, and a mucilaginous, somewhat saline taste.

One part of *Chondrus* boiled for ten minutes with 30 parts of water yields a solution which gelatinizes on cooling and is not colored blue by iodine T.S.

Average dose - In decoction, 15 Gm. (4 drachms).

U.S.P. - 1910, p. 109.

Chondrus

Chondrus.

Irish Moss. Carrageen.

The dried plant of *Chondrus crispus* (Linne) Stackhouse or of *Gigartina mamilliosa* (Goodenough et Woodward) J. Agardh (Fam. Gigartinaceae).

Entire plants more or less matted together, consisting of a slender stalk from which arises a series of dichotomously branching more or less flattened segments, emarginate or deeply cleft at the tips; from 5 to 15 cm. in length, and 1 to 10 mm. in width; yellowish-white, translucent, frequently coated with a calcareous deposit which effervesces with hydrochloric acid, sometimes with fruit bodies or sporangia embedded near the apex of the segments (in *C. crispus*) or with sporangia borne on short tuberculated projections or stalks, more or less scattered over the upper portion of the segments (in *G. mamilliosa*); somewhat cartilaginous; odor slight sea-weed like; taste mucilaginous, saline. Boil one part of *Chondrus* for about ten minutes with 30 parts of water, replacing the water lost by evaporation, the strained liquid forms a thick jelly upon cooling. When softened in cold water *Chondrus* becomes gelatinous and transparent, the thallus remaining nearly smooth and uniform and not swollen except slightly at the tips; a solution made by boiling 0.3 Gm. of the drug in 100 mls of water and filtering gives no

precipitate on the addition of tannic acid. T.S. (gelatin), and when cold does not give a blue color on the addition of iodine, T.S. (starch).

N. F. V - 1926 - p. 306.

Chondrus.

Chondrus.

U.S.P. IX

Irish Moss.

Carrageen.

Chondrus is the dried, bleached plant of *Chondrus crispus* (Linne) Stackhouse or of *Gigartina mamillosa* (Goodenough et Woodward). J. Agardh (Fam. Gigartinaceae). Chondrus contains not more than 2 per cent of foreign organic matter. Description and physical properties.

Whole Chondrus: Entire plants matter together consisting of a slender stalk from which arises a series of dichotomously branching, more or less flattened segments, emarginate or deeply cleft at the tips; from 5 to 15 cm. in length, and 1 to 10 mm. in width; yellowish white; translucent; frequently coated with a calcareous deposit which effervesces with hydrochloric acid; sometimes with fruit bodies or sporangia embedded near the apex of the segments (in *C. crispus*) or with sporangia borne on short tuberculated projections on stalks, more or less scattered over the upper portion of the segments (in *G. mamillosa*); somewhat cartilaginous. Odor slight, sea-weed like; taste mucilaginous, saline.

Tests for Purity: Boil one part of Chondrus for about ten minutes with 30 parts of water replacing the water lost by evaporation; the strained liquid forms a thick jelly upon cooling. When softened in cool water, chondrus becomes gelatinous and transparent, the thollus remaining nearly smooth and uniform, and not swollen except slightly at the tips; a solution made by boiling 0.3 Gm. of the drug in 100 cc. of water and filtering gives no precipitate on the addition of tannic acid T.S (absence of gelatin), and when cold does not give a blue color on the addition of iodine T.S. (absence of starch).

Preparation: Mucilago Chondri.

SUMMARY OF DATA OF U. S. P. 1820 - 1920.

CHONDRUS CRISPUS.

Official: in U.S.P. 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910.

N.F. 1926.

Official Latin Title:

Chondrus, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, N.F. 26.

Official English Title:

Chondrus, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, N.F. 26.

Official Abbreviation:

Chondr., N.F. 1926.

Official Synonym:

Irish Moss, 1840, 1850, 1860, 1870, 1880, 1890, 1910, N.F. 26.

Carragheen, 1890, 1910, N.F. 26.

Official Family:

Gigartinaceae, 1900, '10, N.F. 26.

Scientific Name:

Chondrus crispus, 1840, '50, '60, '70, '80, '90, 1900, '10, N.F. 26.

Chondrus mammilosus, 1880.

Gigartina mamilliosa, 1890, 1900, '10, N.F. 26.

Part Used:

No designation of part 1840, '50, '60, '70, '80, '90.

The dried plant. 1900, '10.

The dried bleached plant N.F. 1926.

Approved by

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Date

June 4, 1929