

BIBLIOGRAPHY  
OF  
PHYSETER MACROCEPHALUS LINNE

By  
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SCHOOL OF PHARMACY

A Thesis Submitted for the Degree of  
GRADUATE IN PHARMACY

University of Wisconsin

1932

Scaliger, J. C.

1557

(Angeblick ein schwammartiger Muresgewacha oder von Amyris Ambrosiaca.)

Exoticarum Exercitationum, etc.; (Brandt & Ratzburg, Mediz. Zool., 12, p. 109.)

The original was not available.

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Gesner, C.

1558

(Antiquity of Spermaceti). Walrat.

Hist. Animal., p. 242; (Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 745; Pharm. Jour., 84, p. 385-6.)

Gives method by which Spermaceti was produced for market in the sixteenth century.

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Cordus, V.

1565

(Dissertatio de halosantho sire Spermaceti vulgo dicto).

Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 745; (Brandt & Ratzburg, Mediz. Zool., 12, p. 108.)

The original was not available.

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Mattiole, P. A.

1572

Amber Gris.

Commentair of Dioscorides, Lyon ed., p. 27; (Pharm. Jour., 84, p. 511; Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 745.)

Characteristics and geographical source given by Dioscorides.

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Clusius, C.

1579

Ambarum Balenarum

Hist. Aromaticum de Garcias abhorto, lib. 1, p. 5; (Jour. de pharm. et de chem., 5, p. 391.)

An early comment on the origin of Ambergris

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(Committee)

1597

Dell Ambra oderifera

Ricettario fiorentino, 1 ed., p. 16; (Tschirch, Handb. der Pharmak., 1 ed. v. 2, p. 746.)

Gives data on origin of Ambergris.

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Clusius, C.

1605

Cete Admirabile

Exoticorum libre, 6, p. 131; (Pharm. Jour., 84, p. 386 & 511; Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 745; Brandt & Ratzburg, Mediz. Zool., 12, p. 92.)

Gives data on origin of Spermaceti.

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Barenis de Verulam, F.

1645

(Physeter macrocephalus).

Historia vitae et mortis, etc., 1. L., p. 528; (Brandt & Ratzburg, Mediz. Zool., 12, p. 111.)

The original was not available.

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Elsner, J. G.

1652

(Spermaceti).

Miscellanea Academia Natura, 1, p. 303; (Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 745; Pharm. Jour., 84, p. 511; Brandt & Ratzburg, Mediz. Zool., 12, p. 105.)

(States that there is a difference between the article obtained from the head of the Cachalot and the so called "Spermae balaenae" of Northern Europe.)

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Worm, O.

1655

(Physeter macrocephalus).

Museum Wormiarum, etc., L. 1, Sect. 2, p. 24; (Brandt & Ratzburg, Mediz. Zool, 12, p. 104.)

The original was not available.

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Schott, G.

1662

(Physeter macrocephalus).

Physica Cusiosa, etc., Lib. 10, p. 10; (Brandt & Ratzburg, Mediz. Zool, 12, p. 110.)

The original was not available.

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Davis, R.

1665

A further Relation of the Whale fishing about the Bermudas, and on the Coast of New England and New Netherland.

Phil. Trans., 1, p. 132; (Brandt & Ratzburg, Mediz. Zool. 12, p. 106.)

Data on a substance found floating on the water and obtained from the blubber, which was affirmed to be Spermaceti.

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Kolbii, ?.

1666

(Ambergris).

Hist. Ambræ Viteb.; (Brandt & Ratzburg, Mediz. Zool. 12, p. 109.)

The original was not available.

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Rowland, W.

1669

Of Sperma Ceti.

A Chymical Dispensatory, 1 ed., p. 280; (Pharm. Jour., 84, p. 511.)

Gives the early history of Spermaceti and the names by which it was called.

---

Schurtz, N.

1673

(Cetaceum).

Materialkammer, p. ?; (Tschirch, Handb. der Pharmak. 1 ed., v. 2, p. 746.)

The original was not available.

---

Bochart, S.

1675

(Physeter macrocephalus).

Hierozoicon sire libertitum opus de animalibus sacrae scripturae, Lib. 6, p. 15; (Brandt & Ratzburg, Mediz. Zool., 12, p. 110.)

The original was not available.

---

Scholtz, A. S.

1678

(Spermaceti).

Cerebrum orcas vulgari supposititia spermatis ceti larva develatum,  
p. 11 Lipsae; (Surg. Gen. Lib. Index, S. 2, v. 13, p. 337.)

The original was not available.

---

Sibbald, R.

1684

(Physeter macrocephalus).

Scotland Illustrated, v. 2, p. 23; (Brandt & Ratzburg, Mediz.  
Zool., 12, p. 92.)

The original was not available.

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Ettmuller, M.

1685

(Spermaceti).

Diss. xlix Med. No. xv; (Surg. Gen. Lib. Ind. S. 1, v. 13, p. 337;  
Tschirch, Handb. der Pharm, 1 ed. v. 2, p. 745.)

The original was not available.

---

Willughby, F.

1686

(Ceti Clusio)\*.

Historia, v. 2, p. 108; (Brandt & Ratzburg, Mediz. Zool., 12, p. 92.)

The original was not available.

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Salmascius, L.

1689

(*Physeter macrocephalus*).

De homonymis hyles jatricae etc., p. 162; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 110.)

The original was not available.

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Cleyer, A.

1690

(*Physeter macrocephalus*).

*Ephemeris Acad. Leopold. Dec. 2, An. 8, obs, 21*; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 105.)

The original was not available.

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Berlii, J. J.

1690

(Spermaceti).

*The Treasury of Drug's Unlocked*, p. ?; (*Pharm. Jour.*, 84, p. 511.)

(Spermaceti is said to be the seed of the whale.)

---

Sibbald, R.

1692

(Antiquity of Spermaceti).

*Phelainologia nova sive observations de rarioribus quibusdam balaenis in Scotiae littoribus naves eiectionis, in quibus nuper inspectae balaenae per genera et operius, secundum characteres ab ipsa natura impressar distribuntur, quicquid nunc primum describuntur, errores etiam circa descriptas deterringatur et breves de dentium, spermatis ceti, et ambrae grisiae ortu natura et usu traduntur.* p. 53; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 110; Tschirch, *Handb. der Pharmak.*, 1 ed. v. 2, p. 745; *Pharm. Jour.* 84, p. 386; *Surg. Gen. Lib. Ind.*, S. 21, v. 3, p. 310.)

(Spermaceti is called Whale shot by English, and Scale Amber by Scotch.)

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Salmon, Wn.

1693

(Spermaceti).

"Seppladium", ? ed, p. ?; (Pharm. Jour., 84, p. 511; Tschirich, Handb. der Pharm., 2, p. 745.)

(Affirms that Spermaceti is obtained from the head of the whale.)

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Pomet, P. T.

1694

De La Baleine

Histoire generale des drogues, 4 ed., p. 73; (Pharm. Jour., 84, p. 386; Jour. de pharm. et de chem., 18, p. 249; Tschirch, Handb. der Pharm., 1 ed., v. 2, p. 746; Brandt & Ratzburg, Mediz. Zool., 12, p. 105.)

Gives data on origin of Spermaceti and its method of preparation.

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Wedel, G. W.

1698

Diss de Ambra

(Brandt & Ratzburg, Mediz. Zool., 12, p. 110.)

The original was not available.

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Beyerus, L.

1704

(Physeter macrocephalus).

Numismatum medemum, etc., 6; (Brandt & Ratzburg, Mediz. Zool., 12, p. 110.)

The original was not available.

---

Fischer, J. S.

1710

(*Physeter macrocephalus*).

Beschreibung der Britische Ames aus dem Eng., p. 133 & 856;  
(Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 106.)

The original was not available.

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Lemery, N.

1714

Cetaceum

Traite Univers. des Drogues, 2 ed., p. ?; (Tschirch, *Handb. der Pharmack.*, 1 ed., v. 2, p. 745.)

States that up to the year 1670, *Spermaceti* was not recognized as coming from the head of the whale.

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Dale, ?

1717 ?

(Parnacitty Whale or Pot Wal Fish.)

Hist. of Harwich, app., p. 413; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 97.)

The original was not available.

---

Quincy, J.

1719

*Spermaceti*

English Dispensatory, 6 ed., p. 316; (*Pharm. Jour.*, 84, p. 511;  
Tschirch, *Handb. der Pharmak.*, 1 ed., v. 2, p. 745.)

Refers to *Spermaceti* as being obtained from the head of the whale.

---

Hasaeus, C. V.

1723

(*Physeter macrocephalus*).

Leviath Jobi et Ceto Jonae disquis, v. 8, p. 29 & 35; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 104.)

The original was not available.

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Boylston, L.

1724

Ambergris found in Whale.

*Phil. Trans.*, 33, p. 193; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 104; Parry, *Raw Materials of Perfumery*, 1 ed., p. 74.)

An early account on the finding of Ambergris in the genital parts of the Spermaceti Whale.

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Dudley, P.

1724

An Account of the Ambergris found in the Sperma Ceti Whale.

*Phil. Trans.*, 33, p. 256; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 97; Parry, *Raw Materials of Perfumery*, 1 ed., p. 74.)

An account on the Spermaceti Whale with a description of how Ambergris is obtained from it.

---

Browne, J. & Hancock, A. G.

1734

Experimentorum Circa Ambram Gryseam

*Phil. Trans.*, 38, p. 437.

Gives data gathered from experimentation on Ambergris.

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Neumann, C.

1734

De Ambra Grysea.

Phil. Trans., 38, p. 417; (Barry, Raw Materials of Perfumery, 1 ed., p. 74.)

Gives description of Ambergris and preparations containing it.

---

Boswell, J.

1736

Dissertation de Ambra.

(Brandt & Ratzburg, Mediz. Zool., 12, p. 109.)

The original was not available.

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Neumann, C.

1736

Ambergris.

Disquisitio de Ambra Grysea.

(Surg. Gen. Lib., Ind., S. 2, V. 1, p. 220; Tschirch, Handb. der Pharm., 1 ed., v. 2, p. 746; Brandt & Ratzburg, Mediz. Zool., 12, p. 109.)

The original was not available.

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Artidi, P.

1738

(Catodon fistula in Cervice.)

Genera piscidae, v. 8, p. 79; (Brandt & Ratzburg, Mediz. Zool., 12, p. 92.)

The original was not available.

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Schreber, J. C. D.

1739

(*Physeter macrocephalus*).

Naturgeschichte der Säugethiere, T. 337, v. 1; (Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 743; Brandt & Ratzburg, Mediz. Zool., 12, p. 92.)

The original was not available.

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Rumphius, G. E.

1741

(Ambergris).

Cabinet d'Amboyne, en hollandais, p. 255; (Jour. de pharm. et de Chem., 5, p. 392; Brandt & Ratzburg, Mediz. Zool., 12, p. 105.)

The original was not available.

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Anderson, J.

1746

(*Physeter macrocephalus*).

Nachrichten von Gronland, etc., p. 208; (Brandt & Ratzburg, Mediz. Zool., 12, p. 104.)

The original was not available.

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Brookes, R.

1754

(Spermaceti).

General Dispensary, 1 ed., p. 118; (Pharm. Jour., 64, p. 511; Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 746.)

Gives method of treating the original material from the sperm whale with alkali to produce Spermaceti.

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Browne, J.

1756

(*Physeter macrocephalus*).

Natural history of Jamaica, p. 459; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 106.)

The original was not available.

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Linne, C.

1758

*Physeter macrocephalus*.

*Syst. Nat. Regnum Animale*, 10 ed., v. 1, p. 76; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 91.)

Gives titles and references of *physeter macrocephalus*.

---

Dossie, R.

1758

(Substitutions for true *Spermaceti*).

*The Elaboratory Laid Open*, p. ? ; (*Pharm. Jour.* 84, p. 511.)

The original was not available.

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Lewis, W.

1761

*Sperma Ceti*.

*Materia Medica*, 1 ed., p. 528.

Gives zoological origin, description, physical properties and uses of *Spermaceti*.

---

Beckmann, J.

1770

(*Physeter macrocephalus*).

Physikalisch oeconomische bibliothek, v. 10, p. 256; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 108.)

The original was not available.

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Rutty, J.

1770

(*Physeter macrocephalus*).

Natural history of Dublin, V. 1, p. 369; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 108.)

The original was not available.

---

Linne, C.

1772

*Physeter macrocephalus*.

*Materia Medica*, 2 ed., p. 13.

Gives zoological origin, pharmacopeial name, composition and uses.

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Muller, O. F.

1776

(*Physeter macrocephalus*).

*Zoologia Danical Prodrromus*, etc., p. 7; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 91.)

The original was not available.

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Pennant, P.

1776

Spermaceti.

British Zoology, v. 3, p. 45 ; (Brandt & Ratzburg, Mediz. Zool., 12, p. 101.)

Gives the Blunt Headed Cachalot as one of the Species which yields Spermaceti.

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Grimm, H. N.

1776

(Observat. de part Ambr.).

(Brandt & Ratzburg, Mediz. Zool., 12, p. 109.)

The original was not available.

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Fabricius, O.

1780

(Physeter macrocephalus).

Fauna. Groenlandicae, p. 41; (Brandt & Ratzburg, Mediz. Zool., 12, p. 92 & 106.)

The original was not available.

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Duhamel du Moncailau, H. S. & LaMarre, L. H. de

1782

(Physeter macrocephalus).

Traite general des Perches, etc., 4, p. 31.; (Brandt & Ratzburg, Mediz. Zool., 12, p. 109; Castagneda bei Hernandez, p. 571.)

The original was not available.

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Duhamel du Monceau, H. L. & La Marre, L. H. de

1782

(Cachalot Male).

Traite generale des peches et histoire poisons, suite de la seconde partie, v. 4, p. 65; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 92.)

The original was not available.

---

Schweidauer, F. X.

1783

An Account of Ambergris.

*Phil. Trans.*, 73, p. 241; (*Chem. & Drugg.*, 77, p. 724; *Jour. de Pharm. et de chem.*, 6, p. 56; *Leipz Samml y Physik*, v. 3, p. 333; Brandt & Ratzburg, *Mediz. Zool.*, v. 12, p. 104.)

States that Ambergris is a by-product of the inflammation of the intestine of the Sperm Whale.

---

Oedmann, S.

1786

(*Physeter macrocephalus*).

Vermischte Sammlungen aus der Naturkunde zur Erklarrung der heiligen Schrift, Heft 3, p. 1; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 105.)

The original was not available.

---

Hunter, J.

1787

Observations on the Structure and Economy of Whales.

*Philos. Trans.*, 77, p. 390; (*Pharm. Jour.*, 91, p. 68; *Surg. Gen. Lib. Ind.*, S. 2, v. 3, p. 310; Tschirch, *Handb. der Pharm.*, 1 ed., v. 2, p. 741; Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 101.)

Gives observations on the structure of the Sperm Whale, and on where Spermaceti is deposited in the animal.

---

Duncan, A.

1791

Sperma Ceti Dictum.

Edinburgh New Disp., 3 ed., p. 284; (Pharm. Jour., 91, p. 68.)

States that Cetaceum should be used in the place of Spermaceti in the British Pharmacopeia.

---

Coffin, J.

1792

Ambergris.

Phil. Trans., 81, p. 44; (Jour. de pharm. et de chem., v.5, p. 394.)

Reports finding Ambergris, before English Council.

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Rose, V. Jr.

1795

Grauen Ambers.

Berliner Jahrb. der Pharm., 1, p. 171; (Brandt & Ratzburg, Mediz. Zool., 12, p. 110.)

Gives test with Nitric and Hydrochloric Acid on Ambergris, and questions whether it comes from *Physeter macrocephalus*.

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Plenck, J. J.

1797

Spermaceti.

Hydrologia corporis humani, etc., p. 236; (Coxe, Am. Dispens., 6 ed., p. 22; Ibid., 7 ed., p. 22; Ibid., 8 ed., p. 22; Ibid., 9 ed., p. 23.)

Gives data on the formation of Sebacic Acid which is found in Spermaceti.

---

Colnett, ?.

1798

(Physeter or Spermaceti Whale).

Voyage through the South Atlantic, v. 4, p. 146; (Brandt & Ratzburg, Mediz. Zool., 12, p. 92.)

The original was not available.

---

Adelung, J. C.

1802

Wallrath.

Versuch eines Wörterbuch, etc., v. 4, p. 1054; (Brandt & Ratzburg, Mediz. Zool., 12, p. 91.)

A brief general account of Spermaceti.

---

Zimmermann, E. A. W.

1802

(Physeter macrocephalus).

Taschemb. der Reis, Jahrg., 4, B. 18, p. 331; (Brandt & Ratzburg, Mediz. Zool., 12, p. 110.)

The original was not available.

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Bostock, J.

1803

Comparative experiments and observations on Myrtle Wax, Bee's Wax, Spermaceti, Adipacire and the crystalline matter of Biliary Colculi.

Micholson Jour. of Nat. Philos., 4, p. 130; (Tschirch, Handb. der pharmak., 1 ed., v. 2, p. 744; Ann. de chemec. et de physco., 46, p. 76; Brandt & Ratzburg, Mediz. Zool., 12, p. 109.)

Gives the chemical and physical properties of Spermaceti.

---

Lacepede, B. G. E. de la V.

1804

Cetaceum.

Histoire naturelle der Cetacees, v. 12, p. 165; (Tschirch, Handb. der Pharm., 1 ed., v. 2, p. 743; Brandt & Ratzburg, Mediz. Zool., 12, p. 92 & 105.)

The original was not available.

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Fourcroy, A. F.

1804

Du blanc de baleine.

Syst. d. Connoissances chemi., v. 10, p. 298; (A General System of Chemical Knowledge, Engl. transl. v. 10, p. 421; Pharm. Jour. 91, p. 68; Tschirch, Handb. der Pharm., 1 ed., v. 2, p. 744; Brandt & Ratzburg, Mediz. Zool., 12, p. 109.)

States that all whale oil deposits a considerable quantity of this concrete matter--Spermaceti.

---

Thomson, T.

1804

Spermaceti.

A System of Chemistry., 2 ed., p. 512; (Pharm. Jour., 91, p. 68.)

States that Spermaceti is found in other species of whale besides *Physeter macrocephalus*.

---

Coxe, J. R.

1806

*Physeter macrocephalus*, Sebum.

Am. Dispens., 1 ed., p. 503; Ibid., 4 ed., p. 415; Ibid., 6 ed., p. 21; Ibid., 7 ed., p. 21; Ibid., 8 ed., p. 21.; Ibid., 9 ed., p. 22.

Gives pharmacopial and common names, description of sperm whale and physical properties of Spermaceti; also its method of preparation.

---

Duevos, L. E.

1807

(Dissextation sur le musc, le castoreum, le blanc de baléine, le Ambre gris et la Civette.)

(Bolton, Select Bibliog. of Chem., Sect. 8, p. 88.)

The original was not available.

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Murray, J.

1807

Spermaceti: Sources.

A System of Chem., v. 4, p. 721; (Pharm. Jour., '91, p. 68.)

States that Spermaceti exists in other Species of whale than the Sperm, and is often spontaneously deposited.

---

Tiedemann, F.

1808

(Catedon macrocephalus).

Zoologie, etc., S. 576; (Oken, Zool. Abth., 2, S. 675; Brandt & Ratzburg, Mediz. Zool., 12, p. 92.)

The original was not available.

---

Boullay, P. F. G.

1810

Note sur le solubilité des Huiles animales et des Graisses par l'alcool et l'éther sulfurique.

Bull. de pharm., 2, p. 26; (Brandt & Ratzburg, Mediz. Zool., 12, p. 109.)

Gives the solubility of Spermaceti in comparison with two allied substances.

---

Thacher, J.

1810

*Physeter macrocephalus*. Spermaceti Whale.

New Am. Dispens., 1 ed., p. 179; Ibid., 2 ed., p. 300; Ibid.,  
4 ed., p. 318.

Gives description of Spermaceti and also its physical,  
chemical, and medicinal properties.

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Pallas, P. S.

1811

(*Physeter macrocephalus*).

Zoographia Rosso-asiatica, p. 286; (Brandt & Ratzburg, Mediz. Zool.,  
12, p. 105.)

The original was not available.

---

Giescke, C. L.

1815

Ambergris.

Brewster's Edinburgh Encycl., v.1, p. 573; (Brandt & Ratzburg,  
Mediz. Zool., 12, p. 104.)

Gives description and origin of Ambergris with references.

---

Gnamisso, de A.

1815

(*Physeter macrocephalus*).

Nova Acta Leopold Carolus, v.12, p. 1; (Brandt & Ratzburg, Mediz.  
Zool., 12, p. 105.)

The original was not available.

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Murray, J.

1815

Sevum Ceti; Spermaceti. *Physeter macrocephalus*, *Mammalia*  
*Cetacea*.

System of Materia Medica and Pharmacy, v.1, p. 386; *Ibid.*, v.4,  
p. 273; *Ibid.*, v.6, p. 394.

Gives zoological origin, description, chemical properties  
and use of Spermaceti.

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Oken, L.

1816

(*Physeter macrocephalus*).

Naturgeschichte, etc., p. 675; (Brandt & Ratzburg, *Mediz. Zool.*,  
12, p. 109.)

The original was not available.

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Blumenbach, J. F.

1816

(*Physeter macrocephalus*).

Abbildungen Naturhistoire, etc., tab. 84; (Brandt & Ratzburg,  
*Mediz. Zool.*, 12, p. 92.)

The original was not available.

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John, J. F.

1818

Chemische Untersuchung der Ambra (*Ambra grisea*).

Buliner Jahrb. & Pharm., v.19, p. 93; (Brandt & Ratzburg,  
*Mediz. Zool.*, 12, p.110.)

Gives the physical and chemical properties of Ambergris,  
according to tests made.

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Virey, J. J.

1819

De L'Origine de L'Ambre Grisea der animaux qui le producient,  
et des moyens par lesquels on purt en obtenis der veritable.

Jour. de pharm. et de chem., 5, p. 388; (Ibid, 18, p. 246.)

Data on animals which produce Ambergris and how it is  
obtained.

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Scoresby, W.

1820

(*Physeter macrocephalus*).

An Account of the Artic Regions, v.2, p. 532; (Brandt & Ratzburg,  
Mediz. Zool., 12, p. 94.)

The original was not available.

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Saussure, N. T.

1820

Observations sur la combinaison de l'essence de citron  
avec l'acide muriatique, et sur quelques substances huileuses.

Schweiggels Jour., 28, p. 393; (Brandt & Ratzburg, Mediz. Zool.,  
12, p. 109; Jour. de pharm. et de chemie., 6, p. 468.)

Gives data on the combustion of Spermaceti, in comparison  
with other allied substances.

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Camper, P.

1820

(*Physeter macrocephalus*).

Observationes anatomique sur la structure des cetacis, p. 96;  
(Brandt & Ratzburg, Mediz. Zool., 12, p. 99.)

The original was not available.

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Vogel, A.

1820

Suivi d'observations sur la nature de l'ambre gris.

Jour. de pharm. et de chem., 6, p. 215.

Gives data on the composition of Ambergris.

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Pellesteir, P. F. & Caventou, J. B.

1820

Sur la nature de la substance adipociruire de l'ambre gris,  
et sur l'originé de ce product.

Jour. de pharm. et de chem., 6, p. 49.

Gives data on composition of Ambergris, its physical and  
chemical properties.

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Pelletier, P. J. & Caventou, J. B.

1820

Opinion sur t origine de t ambre gris.

Jour. de pharm. et de chem., 6, p. 56; Ibid., 18, p. 247.

Gives their opinion as to the origin of Ambergris.

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Saussure, T.

1820

Suite des observations sur les substances huillenses.

Ann. d. chem. et d. phys., 3. 2, v.13, p. 340; (Am. Jour.  
Pharm., 68, p. 8.)

Reports data obtained by combustion of Sperm oil, with  
melting point of forty seven degrees Centigrade.

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virey, J. J.

1821

Der grauen Ambers.

Almanack fur Scheidekunstl., v.42, p. 1; (Brandt & Ratzburg, Mediz. Zool., 12, p. 109.)

Gives the origin and early history of Ambergris with references.

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Pfaff, C. H.

1821

Wallrath.

Syst. d. mat. medic., v.6, p. 154; (Tschirch, Handb. der Pharmak., v.2, p. 744; Brandt & Ratzburg, Mediz. Zool., pt. 12, p. 109.)

Gives the characteristics of Spermaceti, including its solubilities.

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Bigelow, J.

1822

Spermaceti.

A Treatise on the Materia Medica., 1 ed., p. 346.

Gives zoological origin, physical and chemical properties of Spermaceti.

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Chevreul, E.

1823

Spermaceti.

Recherches Chimique sur les corps gras d'origine animales, p. 170 & 237; (Am. Jour. Pharm., 68, p. 8; Gmelins, Handb., v.2, p. 440; Tschirch, Handb. der pharm., 1 ed., v.2, p. 744; Compt. Rend., 182, p. 499; Ann. de chemie et de phys., S. 3, v.37, p. 361; Brandt & Ratzburg, Mediz. Zool., 12, p. 109.)

Gives data on the melting point of Spermaceti.

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Guibourt, N. J.

1824

Du Blanc de baleine on Cetine.

Pharm. Waarenkunde, v.2, p. 749; (Brandt & Ratzburg, Mediz. Zool., 12, p. 109.)

Gives the origin, description, and composition of Spermaceti.

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Weddell, J.

1825

(Spermaceti).

A Voyage towards the South Pole in 1822-24, etc., p. 1; (Brandt & Ratzburg, Mediz. Zool., 12, p. 105.)

The original was not available.

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Blumenback, J. F.

1825

(Physeter macrocephalus).

Naturgeschichte, etc., p. 114; (Brandt & Ratzburg, Mediz. Zool., 12, p. 91.)

The original was not available.

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(Committee)

1827

Tinctura Ambrae.

Preuss. Pharmakopoe, 4 ed., p. 319; (Brandt & Ratzburg, Mediz. Zool., 12, p. 111.)

Gives formula for the preparation of the tincture.

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Bussy, A. & Le Canu, L. R.

1827

Sur la Distillation des Corps gras.

Ann. de. Chemie. et de phys., S.2, v.34, p. 57; (Brandt & Ratzburg, Mediz. Zool., 12, 109.)

Gives data obtained upon dry distillation of Spermaceti.

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Dulk, F. P.

1828

(Ambergris).

Pharmacopoea Leipz., 8 ed., p. 241; (Brandt & Ratzburg, Mediz. Zool., 12, p. 109.)

The original was not available.

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Brandt, J. F. & Ratzburg, J. T. C.

1829

Physeter Macrocephalus.

Mediz. Zool., pt. 12, p. 91; (Tschirch, Handb. der pharmak., 1 ed., v.2, p. 743.)

Gives the names of physeter macrocephalus in different languages, with synonyms and references.

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Schneider, E.

1829

(Physeter macrocephalus).

Beitrag, etc., p. 244; (Brandt & Ratzburg, Mediz. Zool., 12, p. 92 & 119.) Beitrag, etc., p. 119.

The original was not available.

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Cuvier, G.

1829

(Cetaceum).

Regne animal. Mammifera, pl. 100, p. 283; (Brandt & Ratzburg, *Mediz. Zool.*, 12, p. 92; Tschirch, *Handb. der Pharmak.*, 1 ed, v. 2, p. 743.)

The original was not available.

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Hooper, R.

1831

Spermaceti: Sources.

*Lexicon Medicum*, 1 ed., p. 969; (*Pharm. Jour.*, 91, p. 68.)

States that Spermaceti is obtained from several species of whale.

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Hodgson, W. Jr.

1832

Emulsion with Egg.

*Am. Jour. Pharm.*, 4, p. 13.

Gives data on using Spermaceti in an emulsion with the yolk of egg.

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Thomson, T. A.

1833

Spermaceti: Sources.

*Elements of Materia Medica and Therapeutics*, v.2, p. 627; (*Pharm. Jour.*, 91, p. 68.)

States that Spermaceti is not so abundant in the White Whale, but found in all other Cetaceae.

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Cetaceum.

U. S. Dispens., 2 ed., p. 194; Ibid., 3 ed., p. 190; Ibid., 4 ed., p. 194; Ibid., 5 ed., p. 202; Ibid., 6ed., p. 202; Ibid, 7 ed., p. 202; Ibid., 8 ed., p. 202; Ibid., 9 ed., p. 209; Ibid., 10 ed., p. 209; Ibid., 11 ed., p. 216; Ibid., 12 ed., p. 242; Ibid., 13 ed., p. 252; Ibid., 14 ed., p. 259; Ibid., 15 ed., p. 395; Ibid., 16 ed., p. 395; Ibid., 17 ed., p. 357; Ibid., 18 ed., p. 317; Ibid., 19 ed., p. 317; Ibid., 20 ed., p. 317; Ibid., 21 ed., p. 319.

Gives pharmacopial name of Spermaceti and a description of the Sperm Whale. Also physical and chemical properties of Spermaceti.

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Baudrimont, A.

1834

Sur l'origine de l'ambre gris et du blanc de baleine.

Jour. de pharm. et de chem., 18, p. 246; (Am. Jour. Pharm., 6, p. 240.)

Gives description of Sperm Whale and of Ambergris and Spermaceti.

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Nieremberg, J. E.

1835

(*Physeter macrocephalus*).

Histoire Naturelle pregrin., p. 263; (Brandt & Ratzburg, Mediz. Zool., 12, p. 105.)

The original was not available.

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Dumas, J. & Peligot, E.

1836

Recherches la Nature d l'Ethal.

Ann. de chem. et de phys., S.2, 62, p. 5; (Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 744; Ann. d chemie et de phys., S. 3, v. 37, p. 36.)

Gives data on the saponification of Spermaceti with Ethyl alcohol.

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Rapp, W. von

1837

(Cetaceum).

Die cetaceum zoologisch. anatomisch. dargestellt, etc., mit abbildungen, p. ?; (Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 743.)

The original was not available.

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Beale, I.

1839

Ambergris.

Natural History of the Sperm Whale, 1 ed., p. 186; (Pharm. Jour., 3, p. 238; Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 741.)

Gives data on origin of Ambergris.

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Bennett, F. D.

1840

Narrative of a Whaling Voyage around the Globe.

(Pharm. Jour., 3, p. 239; Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 741.)

In the above account, gives data on origin of ambergris.

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Radcliff, W.

1842

Untersuchung der oxydations-producte des Wallraths durch Salpetersaure.

Leibig's Annalen, 43, p. 349; (Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 744.)

Gives data obtained on the oxidation of Spermaceti with Saltpeter.

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Smith, L.

1842

Über die zusammensetzung und Destillation der Wallraths, nebit einiger Bemerkungen über seine oxydation durch Saltpeter saure.

Ann. der chem. u pharm., 42, p. 241; (U. S. Dispens., 7 ed., p. 203; Ibid., 8 ed., p. 203; Ibid., 9 ed., p. 209; Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 744; Ann. de chemie et de phys., S. 3, 6, p. 40.)

Data on the physical and chemical properties of Spermaceti, with a few remarks of its oxidation by Nitric Acid.

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Stenhouse, J.

1842

Cetine.

Phil. Mag., S.3, v.20, p. 271; (Jour. & prakt. chem., 27, p. 253; Am. Jour. Pharm., 68, p. 8.)

Gives results of analysis of Cetine and Spermaceti.

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Galaup de la Perouse, J. G.

1843

(*Physeter macrocephalus*).

Voyages autour der Monde, p. 34; (Brandt & Ratzburg, Mediz. Zool., 12, p. 105.)

The original was not available.

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Payne, A.

1843

Ambergris.

Pharm. Jour., 3, p. 237.

Gives data on the history of Ambergris.

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Jackson, J. B. J.

1845

Cetacea.

Dissection of a Spermaceti Whale and three other Cetaceans, Boston Jour. Nat. Hist., 5, p. 10; (Surg. Gen. Lib. Ind., S. 2, v.3, p. 309.)

Gives data obtained from dissection of the Sperm Whale and three other species.

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Hollandt, C. H.

1852

(To Pulverize Spermaceti).

Wittstein's Vierteljahrschrift für praktische Pharmacie, 1, p. 196; (Natl. Drugg., 24, p. 139; Prac. Am. Pharm. Assoc., 42, p. 966; Drugg. Circ., 41, p. 22; Pharm. Jour., 12, p. 550; Merck's Rep., 8, p. 64; Montr. pharm. Jour., 7, p. 375; West. Drugg., 21, p. 228.)

Directions are given for powdering Spermaceti.

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## Zusammensetzung der Wallraths.

Berlin Monatsbericht., p. 326; (Chem. Gaz., 10, p. 321; U. S. Dispens., 10 ed., p. 209; Ibid., 12 ed., p. 243; Ibid., 13 ed., p. 252; Ibid., 14 ed., p. 260; Liebig's Ann., 92, p. 291; Pogg. Ann., 87, p. 21-44, 267-93; Jour. & prakt. chem., 57, p. 30; Tschirch, Handb. der Pharmak., v.2, p. 744; Analyse der Fette und Wacharten, 5 ed., p. 1137; Compt. Rend., 182, p. 499; Ann. de chimie, S. 3, 37, p. 361; Hall, Jahrb., 5, p. 187; Hall, Zeitschr., Gesamt Natur, 4, p. 81-110; Ann. de chimie et de phys., S.3, 37, p. 361; Pogg. Annal., 92, p. 429.)

Gives methods employed for finding the composition of Spermaceti; also names of compounds found and their chemical properties.

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King, J. & Newton, R. S.

1852

## Cetaceum.

Eclec. Dispens., 1 ed., p. 117.

Gives history, properties, uses, and official preparations of Spermaceti.

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Lepage, M.

1852

## Chloroform as a Solvent.

Am. Jour. Pharm., 24, p. 147.

Gives data on solubility of Spermaceti and similar substances in chloroform.

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Wiggers, A.

1853

Animalis Cetacea. Cetaceum.

Grundris der Pharmacog., 1 ed., p. 547.

Gives zoological source, constituents, and chemical properties of Cetaceum.

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Pereira, J.

1853

Ambergris.

Mat. Med., 2 ed., v.2, p. 2249; (Pharm. Jour., 112, p. 491; Tschirch, Handb. der pharmak., v.2, p. 744.)

Describes Ambergris and gives its use.

---

Wiggers, A.

1853

Ambr. Ambras. Ambarum.

Grundrich der Pharmacog., 1 ed., p. 348.

Gives zoological source, constituents and use of Ambergris.

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Martius, C. W. T.

1854

On Pela or the White Wax of China and Spermaceti.

Pharm. Jour., 14, p. 9.

Gives tests to show the difference between Pe-la and Spermaceti.

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Martiny, E. F. G.

1854

(Cetaceum).

Naturgeschichte der fisci die Heilkunde wichtiger Theise, mit besonderer Ruicksicht huf Pharmacologie, Pathologie, und Toxicologie., 2, ed., p. ?; (Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 743.)

The original was not available.

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Hofstadter, G. P.

1854

Untersuchung der Fette der Kopfes der Pottwails. (Physeter macrocephalus Shaw.)

Liebig's Annalen, 91, p. 177; (Tschirch, Handb. der Pharmak., 1 ed.; v. 2, p. 744; Compt. Rend., 182, p. 499.)

Gives data on the physical properties and chemical composition of Spermaceti.

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Pliny, C.

(1855)

Physeter.

Hist. Natur., v.2, Bk.9, p. 361; Jour. de Pharm., 5, p. 385; Brandt & Ratzburg, Mediz. Zool., 12, p. 92 & 105.

Gives the origin and habitat of the species Physeter.

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Hopkins, C. W.

1855

An account of some experiments on the effects of pressure on the temperature of fusion of different substances.

Proc. Brit. Assoc., 24, p. 54; (Am. Jour. Pharm., 27, p. 107.)

Gives data of fusing points of Spermaceti and other similar substances under pressure.

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(Editor)

1858

(Ambergris).

Boston Ledger, p. ?; Drugg. Circ., 2, p. 217.

Comments on a report of the sale of Ambergris, gives its origin and uses.

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King, J.

1859

Cetaceum.

Am. Dispens., 5 ed., p. 212; Ibid., 6 ed., p. 218; Ibid., 8 ed., p. 208; Ibid., 10 ed., p. 208; Ibid., 15 ed., p. 208; Ibid., 16 ed., p. 208; Ibid., 18 ed., v.2, p. 484.

Gives origin, physical and chemical properties of Spermaceti.

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Mayne, R. G.

1860

(Spermaceti).

Expository Lexicon., 1 ed., p. ?; (Pharm. Jour., 91, p. 68.)

(States that it is obtained from other species of whale than the Sperm Whale.)

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Proctor, B. S.

1863

Substitutes for Wax.

Chem. & Drugg., 4, p. 214; (Am. Jour. Pharm., 35, p. 526.)

Gives a table of wax substitutes including Spermaceti with their use and melting points.

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Wigand, A.

1863

Cetaceum S. Sperma Ceti. Wallrath.

Lehrbuch der Pharmak., 1 ed., p. 283; Ibid., 2 ed., p. 422.

Gives zoological sources of Cetaceum with physical and chemical properties.

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Murie, J.

1865

(Physeter macrocephalus).

Proc. Zool. Soc. Lond., p. 390; (Surg. Gen. Lib. Ind. S.1, v.11, p. 208.)

Describes the deformity of the lower jaw in the Cachalot.

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Henkel, J. B.

1867

Cetaceum, Wallrath. (Sperma Cete).

Handb. der Pharmak., 1 ed., p. 611.

Gives the zoological source, constituents, adulterants, chemical properties and use of Cetaceum.

---

Henkel, J. B.

1867

Ambra. Ambra.

Handb. der Pharmak., 1 ed., p. 607.

Gives zoological source, physical characteristics, chemical properties and use of Ambergris.

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Wimmel, T.

1868

Über den Schmelzpunkt der Fette and ihr Verhalten beim Erstarren.

Annalen Pogg., 133, p. 121; (Am. Jour. Pharm., 68, p. 8; Zeits. j. allg. vester. Apoth. Ver., 6, p. 401; Am. Jour. Pharm., 41, p. 22 & 430; Wittstein's, Viertels f. Pharm., 18, p. 272.)

Gives observations of the melting and solidifying point of Spermaceti, as well as that of other fats and waxes.

---

Bird, W. S.

1869

Whales and Whale Fishing, and the Products Obtained.

(Jour. of Pharm., 28, p. 478; Drugg. Circ., 13, p. 93.)

Reports on the products of the Sperm Whale and those of other species of whale.

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(Editor).

1872

Essence of Ambergris.

New Rem., 1, p. 272.

A formula and directions for making the above preparation are given.

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Rudorff, F.

1872

Über die Bestimmung die Schmelz-und Eratarrungstemperature der Fette.

Annalen Pogg., 145, p. 279; (Am. Jour. Pharm., 68, p. 8.)

Records the melting point of Spermaceti together with that of other fats and waxes.

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Brown, W. H.

1874

Ambergris.

Proc. Am. Pharm. Assoc., 22, p. 621.

Reports on the scarcity of Ambergris, and on the price.

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Filmour, W.

1876

Tests on Sperm Oil.

Pharm. Jour., 36, p. 329; (U. S. Dispens., 20 ed., p. 317; Yrbk. Brit. Pharm. Conf., 14, p. 69.)

Gives tests for detection of adulterants in Sperm oil; also data on specific gravities of the oil and the amounts of Cetin found.

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(Editor).

1877

Ambergris.

Drugg. Circ., 21, p. 197.

Gives origin, description, physical properties and use of Ambergris.

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(Editor).

1877

Spermaceti and Sperm oil.

Drugg. Circ., 21, p. 139.

Reports on the history of Spermaceti, its adulterations and method of purification.

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(Editor).

1877

Ambergris.

Drugg. Circ., 21, p. 197.

A report on the origin, physical properties and use of Ambergris.

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Dubelle, G.

1879

Ambergris.

Drugg. Circ., 23, p. 74.

Advances theories on the origin of Ambergris.

---

Stille, A. & Maisch, J. M

1879

Cetaceum.

The Nat. Dispens., 1 ed., p. 379; Ibid., 2 ed., p. 383; Ibid., 3 ed., p. 417; Ibid., 5 ed., p. 439.

Gives the zoological origin, description of Spermaceti, its physical and chemical properties and also its medical action and use.

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(Editor).

1881

Ambergris.

Drugg. Circ., 25, p. 154.

Gives directions for preparing a tincture and an extract of Ambergris.

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Allen, A. H.

1882

Examination of Sperm oil.

Comm. Org. Anal., 1 ed., v.4, p. 160; (West. Drugg., 4, p. 98.)

Gives methods for determining the purity of Sperm oil.

---

Dieterich, E.

1882

(Specificischer Gewicht von Wachs, Ceresin, etc.)

Geschäfts-Ber., p. ?; (Arch. d. Pharm., 220, p. 454; Am. Jour. Pharm., 68, p. 8.)

(Gives specific gravities of allied substances including spermaceti; also other data.)

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Merrell, A.

1883

Cetaceum-Spermaceti.

Digest of Materia Medica and Pharmacy, 1 ed., p. 159.

Gives zoological origin, solubility test for adulterants of preparations and used of Spermaceti.

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Schaedler, C.

1883

Walrat--Cetaceum.

Die Technologie der Fette u. Oele der pflanzen u Thierrsciehs,  
1 ed., p. 679; (Am. Jour. Pharm., 68, p. 8.)

Gives origin and chemical composition of Spermaceti with uses.

---

Merrell, A.

1863

Ambra Grisea. Ambergris.

Digest of Materia Medica and Pharmacy, 1 ed., p. 91.

Gives zoological origin, solubility, constituents, preparations and uses of Ambergris.

---

Wrenn, W. A.

1863

. Ambergris.

Chem. & Drugg., 25, p. 67.

Gives formulas for making perfume containing Ambergris.

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Pouchet, C. H. & Bearuegard, H.

1864

Sur le boite a Spermaceti.

Compt. Rend., 99, p. 248.

Deals with the anatomy of the Sperm Whale in regard to the location of Spermaceti.

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Fluckiger, F. A.

1864

Cetaceum--Walrat.

Grundriss der Pharm., 1 ed., p. 238; (Pharm. Jour., 84, p. 385 & 442; Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 745.)

Gives zoological origin, composition and uses of Spermaceti.

---

Fluckiger, F. A.

1884

Cetaceum--Walrat.

Pharm. Chemie., 1 ed., p. 238; (Pharm. Jour., 84, p. 385 & 442;  
Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 745.)

Gives origin, composition and uses of Spermaceti.

---

Pouchet, G. & Beauregard, H.

1885

Note sur l'organe des Spermaceti.

Compt. Rend. f. Soc. Biol., 37, p. 342.

Notes on the anatomy and organs of the Sperm Whale, also  
showing the location of Spermaceti in the Whale.

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Hoppe, M.

1886

To Detect Spermaceti in Oil of Rose.

Chem. & Drugg., 30, p. 354; (Yrbk. of Brit. Pharm. Conf., 24,  
p. 233; West. Drugg., 8, p. 447.)

Gives directions for testing oil of rose for Spermaceti.

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Kreuz, C.

1886

Cetaceum.

Pharmakognosie fur der Eratumtesricht, 1 ed., p. 222.

Gives zoological origin, chemical properties and uses  
of Spermaceti.

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Heppe, G.

1887

Zum Nachweis von Walrath in Rosenol.

Zeitschr. für. Analyst. Chem., 26, p. 752; (Yrbk. Brit. Pharm. Conf., 25, p. 126.)

Gives directions for carrying out the above test.

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Maisch, J. M.

1887

Ambra Grisea--Ambergris.

Organic Materia Medica, 3 ed., p. 38; Ibid., 5 ed., p. 39; Ibid., 6 ed., p. 39.

Gives Zoological origin, description, constituents, tests and properties of Ambergris.

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Maisch, J. M.

1887

Cetaceum--Spermaceti.

Organic Materia Medica, 3 ed., p. 489; Ibid., 5 ed., p. 510; Ibid., 6 ed., p. 483.

Gives zoological origin, description, adulteration, composition and uses of Spermaceti.

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Wigand, A.

1887

Ambra grisea. Graue Ambra.

Lehrb. der Pharmak., 2 ed., p. 423.

Gives zoological source and chemical and physical properties of Ambergris.

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Ochse, G. H.

1887

Walrat wird häufig mit Stearinsäure gefälscht.

Les Corps gras Indust., 13, p. 207; (Chem. Zeit., 2, p. ?; Pharm. Zeit. f. Russl., 26, p. 249; Am. Jour. Pharm., 59, p. 348; Proc. Am. Pharm. Assoc., 35, p. 284; Chem. & Drugg., 30, p. 752; West. Drugg., 9, p. 117; Ibid., 16, p. 332; Pharm. Era., 1, p. 203; Pharm. Rec., 7, p. 235; Drugg. Circ., 31, p. 129; Ibid., 32, p. 248; Brit. & Col. Drugg., 14, p. 209; Analyse der Fette und Wachsarten, 5 ed., p. 1138.)

Gives directions on how to detect the adulteration with stearic acid in Spermaceti.

---

Pouchet, G.

1888

(Le Cachalot.)

Dux Mondes, p. ?; (Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 74.)

The original was not available.

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(Editor).

1888

Northern and Southern Spermaceti.

Chem. & Drugg., 33, p. 241.

Discusses difference in luminosity of the spermaceti obtained from the whale of the north of the South Seas.

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Farbi, ?.

1889

Fälschung des weißen Walfetts.

Jour. de pharm. et de chimie., S.5, v.19, p. 76; (Yrbk. Brit. Pharm. Conf., 26, p. 196; Arch. der Pharm., v. 227, p. 427.)

Gives directions for detecting stearin in Spermaceti.

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Pouchet, G. et Chaves, F. A.

1890

Des formes exterienses du Cachalot.

Jour. d'anat phys., 26, p. 270; (Tschirch, Handb. der Pharmak.,  
1 ed., v.2, p. 7.)

Gives description of the abdomen of the whale with figures  
to represent the different parts.

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Leavitt, M. H.

1890

Tincture of Ambergris.

Brit. & Col. Drugg., 18, p. 330.

Gives a formula for making a tincture to be used in perfume.

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Boas, J. E. V.

1890

Physeter macrocephalus.

Schrb. d. zoologie, 1 ed., p. 549; (Tschirch, Handb. der Pharmak.,  
1 ed., v.2, p. 743.)

Gives illustrations of the head from which the Spermaceti  
is obtained.

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vogeles, A. G.

1890

Walrat und Ambra.

Am. Pharm. Vorzeit, v.2, p. 27; (West. Drugg., 12, p. 87.)

Gives data on the early history of Spermaceti and  
Ambergris.

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Schaedler, C.

1890

Walrat-Cetaceum.

Die Untersuchungen der Fette, Olle, Wachsorten, 1 ed., p. 200.

Gives the chemical composition of Spermaceti with its physical properties.

---

Kossel, A. C. & Obermueller, K.

1891

Verseifung.

Pharm. Zeit., 36, p. 354; (West. Drugg., 13, p. 302.)

Gives new method for saponification of Spermaceti and allied substances. German patent number 55057.

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(Editor).

1891

Large Pieces of Ambergris.

Chem. & Drugg., 39, p. 567; (Drugg. Circ., 35, p. 280; Am. Drugg., 20, p. 341; Proc. Am. Pharm. Assoc., 40, p. 800.)

Gives history and zoological origin of several large pieces of Ambergris.

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(Editor).

1891

History of Ambergris.

Pharm. Era, 6, p. 305.

Gives some notes on the history of Ambergris.

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Dorman, W. B.

1892

Ambergris from an American Standpoint.

Drugg. Circ., 36, p. 27; (Proc. Am. Pharm. Assoc., 40, p. 800.)

Gives a history of Ambergris and its use in the perfume industry.

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(Editor).

1892

Ambergris.

Chem. & Drugg., 40, p. 672.

Reports finding Ambergris in the South Pacific Ocean.

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Pouchet, G. & Beauregard, H.

1892

Note sur l'Ambre Gris.

Compt. Rend. Soc. de Biol., 44, p. 588; (Tschirch, Handb. der Pharmak., 1 ed., v. 2, p. 742.)

Notes on the physical and chemical properties of Ambergris.

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Pouchet, G.

1892

Sur les Calculs intestinaux der Cachalot (Ambre gris).

Compt. Rend., 114, p. 1487-89; Rep. de Pharm., S.3, v.4, p. ?; (Am. Jour. Pharm., 64, p. 570; Proc. Am. Pharm. Assoc., 41, p. 713; Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 745.)

Reports observation on different samples of Ambergris; gives the constituents found.

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(Editor).

1892

French Consuls on Ambergris.

Chem. & Drugg., 40, p. 558.

French Consuls informed of Ambergris being found in  
Berrneak and in Zangibar.

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Jourdain, U. S.

1892

Contribution a l'histoire de l'Ambre Gris.

Compt. Rend., 114, p. 1557; (Jour. de pharm. et de chem., S.5,  
v.25, p. 166; Drugg. Circ., 36, p. 203; Am. Jour. Pharm., 64,  
p. 570; Proc. Am. Pharm. Assoc., 41, p. 713; Pharm. Jour., 52,  
p. 83; Nat. Drugg., 21, p. 63; Surg. Gen. Lib., Ind., 2, 1, p.292.)

From data on microscopical examinations of Ambergris;  
regards it analogous to intestinal calculi.

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Luckowitsch, J.

1893

(Cetaceum).

Chem. Zeit., 17, p. 1453; (Tschirch, Handb. der Pharmak.,  
1 ed., v. 2, p. 744; U. S. Disp., 20 ed., p. 317.)

The original was not available.

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(Editor).

1893

Ambergris.

Pharm. Era, 10, p. 275.

Discusses the history of Ambergris.

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(Editor).

1893

Ambergris.

Pharm. Era, 10, p. 275; (Brit. & Col. Drugg., 24, p. 439.)

Gives a history of Ambergris, with its description, chemical and physical properties.

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Beauregard, H.

1893

(Ambergris).

Jour. de pharm. & Anoces., 26, p. 346; (Pharm. Jour., 52, p. 346; Proc. Am. Pharm. Assoc., 41, p. 713; Natl. Drugg., 22, p. 133.)

(Discusses the composition of Ambergris.)

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Lyddeker, R.

1894

Sperm-Whale or Cachalot.

Royal Natural Hist., v.3, p. 33; (Encycl. Brit., 11 ed., v.28, p. 573; Pharm. Jour., 91, p. 68.)

Names the bottle-nose whale as a source of Spermaceti; oil yields five per-cent of it.

---

Beauregard, H.

1895

Note sur un volumineux morceau d'ambre gris.

Compt. Rend. Soc. de biol., S.2, v. 10, p. 743; (Surg. Gen. Lib., Ind., S. 21, v.1, p. 292.)

Describes a large lump of Ambergris and tells how it differs from the usual run of Ambergris.

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Parry, J. E.

1895

Adulterated Sperm Oil.

Chem. & Drugg., 46, p. 124; (Drugg. Circ., 39, p. 57; Am. Drugg., 26, p. 105; U. S. Dispens., 20 ed., p. 317.)

Gives data for detecting adulterants in sperm oil.  
Gives tests and methods.

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Wall, O. A.

1895

Ambergris.

Meyer Bros. Drugg., 16, p. 12.

Gives origin, description and use of Ambergris.

---

(Editor).

1895

Ambergris--A Monster Lump.

Chem. & Drugg., 47, p. 672; (Proc. Am. Pharm. Assoc., 44, p. 662.)

Report on large piece of Ambergris that was found, giving its size, color, and other properties.

---

Sayre, L. E.

1895

Cetaceum-Spermaceti.

Manual Organic Mat. Med. and Pharmacog., 1 ed., p. 452.

Gives description, constituents and uses of Spermaceti.

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Harmonic, H.

1896

Mystery of Ambergris.

Scient. Am., 42, Suppl., p. 17427; (Surg. Gen. Lib. Ind., S.3, v.1, p. 330.)

A report on the history of Ambergris, with a description of the whale from which it is obtained, also data on its use and price.

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(Editor).

1896

Ambergris.

Montreal Pharm. Jour., 7, p. 127.

Deals with the history, physical properties and uses of Ambergris.

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Allen, A. H.

1896

Spermaceti Group. Waxes.

Dictionary Appl. Chem., v.3, p. 34; (Am. Jour. Pharm., 68, p. 8.)

Gives data on the specific gravity of Spermaceti.

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Kebler, L. F.

1896

Character of Spermaceti.

Am. Jour. Pharm., 68, p. 7; (U.S. Dispens., 19 ed., p. 318; Proc. Am. Pharm. Assoc., 44, p. 775; Pharm. Jour., 56, p. 83; Yrbk. Brit. Pharm. Conf., 33, p. 156; Jour. Soc. Chem. 2nd, 15, p. 206; Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 744; Analyse der Fette und Wachsorten, 5 ed., p. 1137.)

Gives data on the melting points and specific gravity of Spermaceti.

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Beauregard, H.

1897

Note préliminaire sur l'examen bacteriologique de  
l'ambre gris.

Compt. Rend., Soc. de biol., S.4, v.10, p. 735; (Surg. Gen. Lib.,  
Ind., S.3, v.1, p. 330.)

Gives data on the examination of the microbe spirillum  
with physeteris.

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Hirschsohn, E.

1897

Getaceum.

Pharm. Zeit. f. Russl., 3b, p. 173; (Pharm. Centrehl., 38, p. 283;  
Drugg. Circ., 41, p. 258; Zeitschr. der oestri. Apoth. Ver., 35,  
p. 297; Yrbk. Brit. Pharm. Conf., 34, 194.)

In an article, commenting on the monograph of the fourth  
edition of the Russian Pharmacopoeia, gives test for  
detecting adulterations with stearic acid.

---

Beauregard, H.

1897

(La bacteriologie de l'ambre gris.)

Nature, 25, pt. 2, p. 234; (Surg. Gen. Lib., Ind., S.3, v.1,  
p. 330.)

The original was not available.

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Kebler, L. F.

1897

Pure Spermaceti.

Am. Jour. Pharm., 69, p. 104; (Drugg. Circ., 41, p. 81; U.S.  
Dispens., 19 ed., p. 318; Proc. Am. Pharm. Assoc., 45, p. 681;  
Yrbk. Brit. Pharm. Conf., 34, p. 193.)

Gives data obtained from experimenting on Spermaceti  
for its purity.

---

Beauregard, H.

1897

Etude bacteriologique de l'ambre gris.

Compt. Rend., 125, p. 254; (Drugg. Circ., 41, p. 330; Chem. & Drugg., 51, p. 256; Pharm. Era, 19, p. 399 & 587; Surg. Gen. Lib., Ind., S.3, v.1, p. 330.)

A report on the finding of a microbe in Ambergris.

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Beauregard, H.

1898

Note sur une moisissure provenant de l'ambre gris.

Compt. Rend. Soc. de biol., S.5, v.10, p. 278; (Surg. Gen. Lib., Ind, S. 3, v.1, p. 330.)

Data on the isolation of a fungus from Ambergris.

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Beauregard, H.

1898

Les cryptogames de l'ambre gris.

Annales de Micrographie, 10, p. 241; (Pharm. Jour., 12, p. 251; Proc. Am. Pharm. Assoc., 47, p. 582; Pharm. Jour., 112, p. 491; Meyer Bros. Drugg., 20, p. 123; Surg. Gen. Lib., Ind. S.3, v.1, p. 330.)

A detailed account of the fungi found in Ambergris, with names of species.

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Salisbury, O. B.

1898

Formation, liberation, and classification of agreeable scents occurring in the vegetable and animal kingdoms.

Merck's Rep., 7, p. 762.

Report on composition of Ambergris and what the odor is due to.

---

Luckowitsch, J.

1899

Spermaceti.

Analyst, 24, p. 321; (Mascoe products of Commerce, p. 64.)

Gives data on the acetyl value and saponification values of Spermaceti; indicates the presence of free alcohols.

---

Ebert, A. E.

1899

To Powder Spermaceti.

Meyer Bros., Drugg., 20, p. 57; (Drugg. Circ., 43, p. 121; Bull. Pharm., 13, p. 166.)

Gives a method for powdering Spermaceti.

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(Editor).

1899

Cetaceum.

Merck's Rep., 8, p. 66 & 402.

Gives physical and chemical properties of Spermaceti.

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Askinson, G. A. 1900

Spermaceti.

Perfumes and their preparation, 2 ed., p. 85.

Gives zoological origin, description, melting point, and uses of Spermaceti.

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(Editor). 1900

Getaceum.

Pharm. Jour., 64, p. 355.

Gives the origin, physical and chemical properties of Spermaceti.

---

Askinson, G. A. 1900

Ambergris.

Perfumes and their preparation., 2 ed., p. 51 & 151.

Gives zoological origin, description of Ambergris, with directions for making a tincture of Ambergris.

---

Beauregard, H. 1901

(The Antiquity of Spermaceti).

Mateire medicale zoologique, 1 ed., p. 195; (Pharm. Jour., 64, p. 385; Ibid, 91, p. 68; Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 741.)

States that Spermaceti was first known to the School of Salerno about 1100 A.D.

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(Editor).

1901

Ambergris.

Bull. Pharm., 15, p. 438.

In answer to a query gives composition of Ambergris.

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(Editor).

1901

Composition of Ambergris.

Merck's Rep., 10, p. 348.

In an answer to queries, a report on the composition of Ambergris is given.

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(Editor).

1901

Ambergris.

Drugg. Circ., 45, p. 215.

In answer to an inquiry mentions the known constituents of Ambergris.

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Dammer, O.

1902

Tests for Ambergris.

Merck's Rep., 11, p. 444.

Gives tests for Ambergris, including specific gravity and solubility.

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(Editor).

1902

Removing the "Gum" from Sperm Oil.

Merck's Rep., 11, p. 208.

Gives directions for removing "gum" so as to get the pure Sperm oil.

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Barclay, J.

1903

Notes on Crude Drugs, Fixed oils, Waxes, etc.

Pharm. Jour., 70, p. 97; (Proc. Am. Pharm. Assoc., 51, p. 933.)

Gives data on Sperm oil as to specific gravity, saponification value, etc.

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Roder, ?.

1904

(Pruf. of Stearins).

Jahresber., p. ?; (Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 749.)

The original was not available.

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Lewkowitsch, J.

1904

Spermaceti (Cetin).

Chemical Technology and Analysis of Oils, Fats, & Waxes, 3 ed., v.2, p. 903; (Pharm. Jour., 91, p. 68.)

Discusses the sources of Spermaceti, including species of whale, and its chemical and physical properties.

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Seoville, W. L.

1904

Spermaceti in Suppositories.

Spatula, 11, p. 10; (Pharm. Jour., 73, p. 967; Proc. Am. Pharm. Assoc., 52, p. 219; Yrbk. Brit. Pharm. Conf., 42, p. 284.)

Discusses use of Spermaceti in making of Suppositories..

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Fendler, G.

1905

Zur Kenntniss der Pottwaltranee.

Chem. Ztg., 29, p. 555; (Pharm. Jour., 75, p. 115; Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 744; Analyse der Fette und Wacharten, 5 ed., p. 1137; Marine Products of Commerce, p. 639.)

An examination of the physical and chemical properties of Spermaceti.

---

Francis, J. M.

1905

Cetaceum.

Bull. Pharm., 19, p. 364.

Gives data on the quality of Spermaceti.

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MacFadden, L. W.

1906

Spermaceti.

Bull. Pharm., 20, p. 203.

Discusses the desirable qualities of Spermaceti for an ointment base.

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Humphrey, J.

1906

Parenols-New Ointment Bases.

Pharm. Jour., 77, p. 623; (Proc. Am. Pharm. Assoc., 55, p. 699.)

Gives directions for making a Parenol containing Spermaceti.

---

(Editor).

1906

The Romance of Ambergris.

The Spatula, 12, p. 803; (Brit. & Col. Drugg., 50, p. 208.)

A report on the history of Ambergris, with the amounts found and a description of the product.

---

(Editor).

1907

Sperm Oil.

Southolle Rep., 15, p. 14; (Yrbk. Brit. Pharm. Conf., 44, p. 149.)

Gives results of the saponification of nine samples of Sperm oil.

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Benedikt-Ulzer, F.

1908

Walrat.

Analyse der Fette und Wachsorten, 5 ed., p. 1136; (Tschirch, Handb. der Pharmak., 1 ed., p. 744.)

Gives names of Spermaceti in various languages, data on melting points and chemical composition.

---

Harvey, T. F.

1908

Cetaceum.

Chem. & Drugg., 72, p. 904.

- Gives the melting point and saponification value of Spermaceti.
- 

Winkler, L.

1908

Walfisch-Physeter macrocephalus. Ambra (Amber grysea).

Animalia als Arzneittal, v.1, p. 79.

Gives origin and history of Ambergris and preparations into which it enters.

---

Winkler, L.

1908

Walfisch-Physeter macrocephalus. Walrat (Sperma Ceti).

Animalia als Arzneittal, v.1, p. 80.

Gives zoological origin, history and preparations into which Spermaceti enters.

---

Bean, P.

1908

Examination of Fats and Oils.

Chem. & Drugg., 72, p. 494.

Discusses the use of vaporizing point test to find adulterants, which can be applied to Spermaceti.

---

Dunlop, H.

1908

Testing of Spermaceti.

Jour. Soc. Chem. Ind., 27, p. 63; (Yrbk. Brit. Pharm. Conf., 45, p. 186.)

Gives a summary of the physical characteristics of Spermaceti.

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Evans & Son Co.,

1909

(Ambergris).

Analyt. Notes, 4, p. 7; (Yrbk. Brit. Pharm. Conf., 47, p. 39.)

(States that Ambergris was found to contain ozokerite.)

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Branderhorst, H. C.

1909

(Untersuchung von Walrat).

Pharm Weikblad., 46, p. 1043; (Chem. Zentralb., 2, p. 1278; Pharm. Jour., 83, p. 565; Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 744.)

Data on physical and chemical properties of Spermaceti with tests for adulterations.

---

Zornig, H.

1909

Cetaceum. Walrat.

Arzeneidrogen., v.1, p. 685.

Gives the zoological origin, how obtained, chemical composition with data on melting point and specific gravity.

---

Harmonic, H.

1909

(De l'ambre gris.)

Rev. Clin. d'androl. et de gynes., 15, p. 173; (Surg. Gen. Lib., Ind., S.3, v.1, p. 330.)

The original was not available.

---

Wall, O. A.

1909

Ambergris.

Notes on Pharmacognosy, 3 ed., p. 40; Ibid., 4 ed., p. 46.

Discusses the zoological origin, description, and use of Ambergris.

---

Wall, O. A.

1909

Cetaceum.

Notes on Pharmacognosy, 3 ed., p. 37; Ibid., 4 ed., p. 43.

Gives zoological origin, description, solubility, and uses of Spermaceti.

---

Hill, A. C.

1909

Cetaceum.

Chem. & Drugg., 74, p. 291.

Gives monograph which is to be used in the new British Pharmacopoeia.

---

Reich, E.

1910

(The Wax Bust Controversy.)

Lond. Times, Mar. 31, 1910, p. 11; (Pharm. Jour., 84, p. 442.)

(States that the first printed treatise on Spermaceti proper is by Valerius Cordus, de Halorantho seci Spermate Ceti vulgo dicto, 1565.)

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Bird, F. C. J. & Luras, E. W.

1910

Cetaceum (Spermaceti).

Pharm. Jour. 85, p. 471; (Chem. & Drugg., 77, p. 593; Yrbk. Brit. Pharm. Conf., 48, p. 105.)

Reports the monograph of Spermaceti which is to be inserted into the new British Pharmacopoeia.

---

Rathgen, F.

1910

Über die Untersuchung der Wachses der Florabusta.

Chem. Zeit, 34, p. 305; (Tschirch, Handb. der Pharmak., 1 ed., v.2, p. ?.)

Gives data on the composition of Spermaceti including specific gravity and melting point.

---

Schelensz, H. E.

1910

(Walrath).

Chem. Ind., v. 32, Nr. B; (Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 746.)

The original was not available.

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Lippmann, E. O

1910

Antiquity of Spermaceti.

Pharm. Jour., 84, p. 385.

Says the earliest known reference to Spermaceti occurred about the year 1530 A.D.

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Pinkus, G.

1910

Das Wachs der Florabüste.

Chem. Zeit, 34, p. 277; (Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 745.)

Gives data on the chemical composition of Spermaceti, including specific gravity and melting point.

---

Buchanan, J. Y.

1910

Ambergris.

Chem. & Drugg., 77, p. 724.

Reports that Ambergris is found in sick whale in larger amounts than in those that are well.

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Kirkby, W.

1910

Spermaceti.

Pharm. Jour., 84, p. 511; (Tschirch, Handb. der Pharmak., 1 ed., v.2, p. 745.)

A history of Spermaceti giving origin and early occurrences with references.

---

Treatt, C. C.

1911

Ambergris.

Perfum. Record, 2, p. 252; (Yrbk. Brit. Pharm. Conf., 49, p. 41.)

Discusses the nature and constituents of Ambergris.

---

Brehms, A. E.

1912

(Cetaceum).

Brehms Tierleben, p. ?; (Tschirch, Handb. der pharmak., 1 ed., v.2, p. 743.)

The original was not available.

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Tschirch, A.

1912

Cetaceum.

Handbuch der Pharmakognosie, 1 ed., v.2, p. 738.

Gives synonyms, etymology, scientific names, pictures of the whale, commerce, chemistry and the history of Spermaceti.

---

Riban, J.

1912

Sur l'ambreine.

Compt. Rend., 154, p. 1729; (Bul. Soc. Chem., S.4, v.11, p. 754; Midl. Drugg. & Pharm. Rev., 57, p. 7; Yrbk. Brit. Pharm. Conf., 49, p. 41; Perfume Record, 3, p. 254; Ibid, 13, p. 300; Schimmel & Co. Semi Annual Rept, April 1916, p. 68.)

Records data obtained on the examination of Ambreine, a fat obtained from Ambergris.

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(Editor).

1912

(Ambergris).

Am. Perfumer, p. ?; (Midl. Drugg., 46, p. 522.)

(Article on the finding of two large pieces of Ambergris.)

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Bird, F. C. J. & Lucas, E. W.

1913

Spermaceti.

Pharm. Jour., 91, p. 68; (Yrbk. Am. Pharm. Assoc., 2, p. 268.)

Gives monograph of Spermaceti which is to be inserted in the new British Pharmacopoeia.

---

Kirkby, W.

1913

Spermaceti: Its Sources.

Pharm. Jour., 91, p. 68; (Yrbk. Am. Pharm. Assoc., 2, p. 268; Yrbk. Brit. Pharm. Conf., 51, p. 281.)

A history of Spermaceti giving evidences that is is obtained from more than one species of the whale.

---

(Editor).

1914

Spermaceti Ointment.

Drugg. Circ., 58, p. 219.

In answer to an inquiry, a recipe for spermaceti ointment is given.

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Xrayer II.

1914

Spermaceti.

Chem. & Drugg., 85, p. 547.

Gives etymology of word Spermaceti.

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Bruff, C.

1915

(Uber Ambra).

Zidskrift Kemi, Farm. Terapi, May No. 9, p. 125; (Pharm. Ztg., 61, p. 116; Yrbk. Am. Pharm. Assoc., 5, p. 228; Midl. Drugg. & Pharm. Rev., 57, p. 8; Chem. Abst., 10, 1, p. 405; Schimmel & Co., Semi Annual Rep., April 1916, p. 68.)

(Gives physical properties of Ambergris, with data on melting point, specific gravity and several other points.)

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Meldrum, R.

1915

Spermaceti: Its Solidifying and Melting Points.

Chem. News, 111, p. 37; (Drugg. Circ., 60, p. 84; Chem. & Drugg., 86, p. 514; Pract. Drugg., 36, Mar. p. 38; Merck's Rep., 24, p. 174; Yrbk. Brit. Pharm. Conf., 52, p. 96.)

A report on the melting and solidifying points of Spermaceti, giving methods of obtaining them.

---

Lundin, P. E.

1916

(Het Sooctelijk Gewicht von Walschot.)

Farm. Revy., p. ?; Pharm. Zeit., 61, p. 356; (Pharm. Weikblad., 53, p. 1000; Yrbk. Am. Pharm. Assoc., 5, p. 234; Chem. Abst., 11, p. 2386; Yrbk. Brit. Pharm. Conf., 55, p. 26.)

(Gives specific gravities of Spermaceti, as varying from 0.931 to 0.949, also describes the process used.)

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Hare, H. A. & Caspari, C. & Rusby, H. H.

1916

Cetaceum--Spermaceti.

Nat. Stand. Disp., 3 ed., p. 437; Ibid., 4 ed., p. 437.

Gives the origin, description, constituents and actions and uses.

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Hare, H. A. & Caspari, C. & Rusby, H. H.

1916

Ambra Grisea. Ambergris.

Nat. Stand. Disp., 3 ed., p. 159; Ibid., 4 ed., p. 159.

Gives the origin, description, composition, adulteration and uses of Ambergris.

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Frerichs, G.

1916

Die Prufung der Walrats.

Apoth. Ztg., 31, p. 209; (Chem. Abst., 11, p. 1250; Yrbk. Am. Pharm. Assoc., 5, p. 234; Yrbk. Brit. Pharm. Conf., 54, p. 283; Chem. Zeit., 87 v.2, p. 282.)

Gives tests for detecting stearic acid in Spermaceti which are more satisfactory than those in German Pharmacopoeia.

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Lund, J.

1917

(Ambergris).

Zidskrift Kemi Farm Terapi, 14, p. 254; (Chem. Abst., 12, p. 773; Yrbk. Brit. Pharm. Conf., 55, p. 24; Midl. Drugg. & Pharm. Rev., 57, p. 8; Schimmel & Co. Semi Annual Rept., April 1918, p. 60.)

(Gives data on melting point, saponification value, etc. of Spermaceti.)

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Zell, T.

1917

(Ambergris--Origin of.)

W. H. Kosmos, Handweiser für Naturfreunde, 14, p. 324; (Schimmel & Co. Semi Annual Rept., April 1918, p. 60; Merck's Rept., 31, p. 16; Yrbk. Am. Pharm. Assoc., 11, p. 137; Natl. Drugg., 52, p. 143; Pharm. Era, 55, p. 214.)

(Advances a new explanation of the origin of Ambergris.)

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Bohrisch, P. & Kurschner, F.

1921

Walrat und seine Prüfung auf Reinheit.

Pharm. Zentra., 61, p. 703; (Drugg. Circ., 65, p. 181; Yrbk. Am. Pharm. Assoc., 9, p. 355; Yrbk. Brit. Pharm. Conf., 58, p. 31.)

Gives adulterants found in Spermaceti and methods for detecting them.

---

Gattifosse, J.

1921

Ambergris.

Roure Bertrand fils Bull., S.4, v.3, p. 132; (Yrbk. Brit. Pharm. Conf., 58, p. 27.)

Discusses the origin of Ambergris and its constituents.

---

Humphrey, J.

1921

Spermaceti.

Drugs in Commerce, 1 ed., p. 103.

Gives zoological origin, description and use of Spermaceti.

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Lloyd, J. V.

1921

Ambergris.

Pharmacoepial Drugs, 1, p. 5 & 285.

Tells of its use in perfume.

---

Gilz, E. & Brandt, W.

1922

Cetaceum, Walrat, Spermaceti.

Lehrbuch der Pharmak., 1 ed., p. 404.

Gives the zoological source, chemical and physical properties of Cetaceum.

---

Cole, H. I.

1922

False Ambergris.

Phillipine Jour. Sci., 20, p. 105; (Jour. Soc. Chem. Ind., 41, p. 517; Drugg. Circ., 66, p. 403; Pharm. Jour., 109, p. 158; Midl. Drugg. & Pharm. Rev., 57, p. 7; Perfum. Rec., 13, p. 300; Yrbk. Brit. Pharm. Conf., 60, p. 26; Pharm. Era, 55, p. 328.)

Report on false Ambergris comparing it with the genuine as to several characteristics including melting point.

---

Tressler, D. K.

1923

Ambergris.

Marine Products of Commerce, p. 644; (Pharm. Era, 60, p. 150.)

Gives data on total production of Ambergris in United States with facts about its composition and use.

---

Tressler, D. K.

1923

Sperm oil and Spermaceti.

Marine Products of Commerce, p. 638.

Gives data on the zoological source, refining, and composition and properties of Sperm oil and Spermaceti.

---

Tsujemato, M. von

1923

Über eine neue Tetradezylen-saure aus dem Spermal und dem Delphintran.

Chem. Umsebau, 30, p. 33; (Ibid., 32, p. 127; Jour. Soc. Chem. Ind. Japan, 29, p. 102; Jour. Soc. Chem. Ind., 47, p. 105; Compt. Rend., 182, p. 497.)

Gives data on the physical characteristics and chemical composition of Sperm oil.

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Armstrong, E. F. & Allan, J.

1924

"The Fats."

Jour. Soc. Chem. Ind., 43, p. 216; (Ibid., 47, p. 106.)

Gives data on the formation of fatty acids and their occurrence in marine animal oils.

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(Editor.)

1924

Ambergris.

Pharm. Jour., 112, p. 384.

A report on the origin and history of Ambergris, with its physical properties.

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Holmen, E. M.

1924

Ambergris.

Pharm. Jour., 112, p. 491; (Yrbk. Am. Pharm. Assoc., 13, p. 243; Yrbk. Brit. Pharm. Conf., 61, p. 20.)

Gives physical differences between yellow and grey Ambergris. Discusses origin and collection.

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(Editor).

1924

Ambergris.

Chem. & Drugg., 101, p. 379.

Describes the Ambergris used in commerce, giving its habitat.

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Armstrong, E. F. & Hilditch, T. P.

1925

Some Acids present in a South Georgia Whale Oil.

Jour. Soc. Chem. Ind., 44, p. 180; (Ibid., 47, p. 107.)

Data on the acids found to be present with a summary of the experimentation on the oil.

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Parry, E. J.

1925

Ambergris.

The Raw Materials of Perfumery, 1 ed., p. 5 & 12.

Gives description and opinions on origin and production of Ambergris with references.

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Richard, F.

1925

Blanc de Baleine.

Jour. de pharm. et de chemie., S.8, v.2, p. 495; (Yrbk. Brit. Pharm. Conf., 63, p. 308.)

Reports the proposed monograph of Spermaceti of the French Codex.

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Suzuki, ?.

1925

(Constituents of Ambergris).

Jap. jour. med. sci., 1, p. 31; (Schweiz. Apoth. Zeit., 64, p. 165; Drugg. Circ., 70, p. 304; Ber. u. d. ges. physiol. u. expt. Pharmakol., 34, p. 157; Chem. Abst., 20, p. 1671; Yrbk. Brit. Pharm. Conf., 63, p. 50.)

(A report on several substances obtained from Ambergris.)

---

Andre, E. & Francois, T.

1926.

Recherches sur l'huile de Cachalot et le Spermaceti.

Compt. Rend., 182, p. 497; Ibid., 183, p. 663; Ibid., 185, p. 279 & 397; (Bull. Soc. Chem. Biol., 9, p. 117; Jour. Soc. Chem. Ind., 47, p. 105.)

Gives data obtained on the saponification of Spermaceti.

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Youngham, H. W.

1926

Cetaceum U.S.P. (Spermaceti).

Text Book of Pharmacognosy, 2 ed., p. 653.

Gives synonyms, zoological origin, part used, habitat, description of animal, and also the description and constituents of Cetaceum.

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Hilditch, T. P. & Lovern, J. A.

1928

The Head and Blubber oils of the Sperm Whale. Quantitative Determinations of the Mixed Fatty Acid Present.

Jour. Soc. Chem. Ind., 47, pp. 16 & 105; (Chem. & Drugg., 109, p. 397.)

Summarizes the results of quantitative determinations of the mixed fatty acids from the head and blubber of the Sperm Whale.

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Wall, O. A. & Suppan, L.

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Cetaceum.

Handb. of Pharmacy., 5 ed., p. 452.

Gives zoological source, description and use of Spermaceti.

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Radcliffe, L.

1928

Glycerin from Whale Oil.

Am. Jour. Pharm., 100, p. 418.

Report on the products obtained from Whale oil and their uses.

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1929

The Head and Blubber oils of the Sperm Whale. Investigation of some of the component wax esters and the general structure of the oils.

Jour. Soc. Chem. Ind., 48, p. 359.

Gives data obtained on experimenting with the oil of the Sperm Whale.

---

Greenish, H. G.

1929

Spermaceti. Cetaceum.

Materia Medica, 5 ed., p. 507.

Gives the zoological sources, description, constituents and adulterants of Spermaceti; also a note on Ambergris.

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(Editor).

1930

Sperm Oil (Arctic).

Chem. & Drugg., 113, p. 207.

Describes Sperm oil and gives its physical and chemical properties.

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(Editor).

1930

Spermaceti.

Chem. & Drugg., 113, p. 207.

Describes Spermaceti with chemical and physical properties.

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Morrisson, F. R.

1930

Ambergris.

Perfume Record, 21, p. 206.

Gives tests for the identification of Ambergris.

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Redgrave, S. H.

1930

Ambergris.

Perfum. Record, 21, p. 204.

A report on the importance of Ambergris in perfumery and a summary of the researches that have been made out.

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Rusby, H. H. , Bliss, R. A. Jr., & Ballard, C. W.

1930

Cetaceum (Cetac.). Spermaceti, U.S.P.

The Properties and Uses of Drugs, 1 ed., p. 72.

Gives zoological origin, properties and uses of Spermaceti.

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- Am(eric)an) Drugg(ist &) Pharm(aceutic)al) Rec(ord), vol. 22-82,  
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- Brit(ish) & Col(onial) Drugg(ist), vol. 12-83, 1887-1930.
- Bull(etin of) Pharm(acy), vol. 5-42, 1891-1928.
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- Drug News, vol. 5-9, 1910-1914.
- Drugg(ists) Circ(ular), vol. 1-73, 1857-1929.
- Elec(tic) Med(ical) Jour(nal), vol. 1-85, 1853-1926.
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vol. 1-18, 1912-1929.
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- Merck's Rep(ort), vol. 2-39, 1893-1930.
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- Nat(ional) Assoc(iation) Ret(ail) Drugg(ists), vol. 1-51, 1902-1931.
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- New Eng(land) Drugg(ist), vol. 5-16, 1893-1904.
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- Northw(estern) Drugg(ist), vol. 2-37, 1901-1929.
- Pharm(aceutic)al) Era, vol. 1-65, 1887-1928.
- Pharm(aceutic)al) Jour(nal), vol. 1-121, 1841-1931.

Pharm(acist &) Chem(ist), vol. 3-18, 1870-1885.

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13 ed., 1870; 14 ed., 1879; 15 ed., 1884; 17 ed., 1894;  
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UNITED STATES PHARMACOPOEIA (O-X)

(1820-1920)

and

NATIONAL FORMULARY (I-V)

(1886-1926)

HISTORY

OF

PRODUCTS OF

PHYSETER MACROCEPHALUS LINNE

U.S.P. 1820 P. p. 46.

Spermaceti.

Physeter macrocephalus G. 227.

Spermaceti.

Spermaceti. The Spermaceti.

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U.S.P. 1830, (N.Y.) p. 27.

Cetaceum.

Physeter macrocephalus.

Spermaceti

Prop. White, crystallized, friable, semi-transparent, unctuous/ odor and taste scarcely perceptible; soluble in the fixed oils, hot / alcohol, ether, and oil of turpentine./

Med. Oper. Demulcent, emollient.

Dose:  $\frac{1}{2}$  drachm to 1 drachm.

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U.S.P. 1830, (Phil.) P. p. 8.

Cetaceum.

Physeter macrocephalus G. 227.

Spermaceti

Concretum suigenius.

A peculiar concrete substance.

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U.S.P. 1840, P. p. 17.

Cetaceum.

Spermaceti.

A peculiar concrete substance obtained from / Physeter macrocephalus.

U.S.P. 1850, P. p. 20.

Cetaceum.

Spermaceti.

A peculiar concrete substance obtained from / Physeter  
macrocephalus.

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U.S.P. 1860, P. p. 24.

Cetaceum.

Spermaceti.

A peculiar concrete substance obtained from / Physeter  
macrocephalus.

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U.S.P. 1870, P. p. 25.

Cetaceum.

Spermaceti.

A peculiar concrete substance obtained from / Physeter  
macrocephalus.

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U.S.P. 1880, p. 72.

Cetaceum.

Spermaceti.

A peculiar, concrete, fatty substance, obtained from  
Physeter macrocephalus Linne. (Class, Mammalia; Order, Cetacea.)

White, somewhat translucent, slightly unctuous masses, of a scaly-crystalline / fracture, a pearly lustre, becoming yellowish and rancid by exposure to air, odor / less, having a mild, bland taste, and a neutral reaction. Specific gravity about 0.945. It / melts near fifty degrees Centigrade (one hundred and twenty-two degrees Fahrenheit) and congeals near forty-five degrees Centigrade (one hundred and thirteen degrees Fahrenheit). It is soluble in / ether, chloroform, disulphide of Carbon, and in boiling alcohol; but slightly solu / ble in cold benzin.

Preparations: Ceratum Cetacei, Unguentum Aquae Rosae.

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U.S.P. 1890, p. 85.

Cetaceum.

Spermaceti.

A peculiar, concrete, fatty substance, obtained from *Physeter macro / cephalus* Linne. (Class Mammalia; order Cetacea.)

White, somewhat translucent, slightly unctuous masses of a scaly-crystalline / fracture and a pearly lustre, odorless, and having a bland, mild taste. It / becomes yellowish and rancid by exposure to air.

Specific gravity: about 0.945 at fifteen degrees Centigrade, (fifty nine degrees Fahrenheit). It melts near fifty degrees

Centigrade (one hundred twenty-two degrees / Fahrenheit), and  
congeals near forty-five degrees Centigrade (one hundred and  
thirteen degrees Fahrenheit).

Insoluble in water, and nearly so in cold alcohol; soluble  
in boiling alcohol; / also in ether, chloroform, carbon disulphide,  
fixed and volatile oils; only / slightly soluble in cold benzine.

An alcoholic solution of Spermaceti is neutral to litmus  
paper.

If one gram of Spermaceti be boiled with one gram of anhydrous  
sodium carbonate / and fifty cubic centimeters of alcohol, and the  
mixture cooled and filtered, the filtrate, upon / being super-  
saturated with acetic acid, may become turbid, but should not /  
afford a precipitate (absence of stearic acid).

Preparations: Ceratum Cetacei; Unguentum Aquae Rosae.

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U.S.P. 1900, p. 96.

Cetaceum.

Spermaceti.

A peculiar, concrete, fatty substance, obtained from the  
head of / the sperm whale, *Physeter macrocephalus* Linne.

White, somewhat translucent, slightly unctuous masses of a  
scaly, crystalline / fracture and a pearly lustre, with a very  
faint odor and a bland, mild taste. It / becomes yellowish and

rancid on prolonged exposure to air.

Specific gravity, 0.938 to 0.944 at twenty five degrees Centigrade (seventy-seven degrees Fahrenheit), 0.842 at one hundred degrees Centigrade (two hundred and twelve degrees Fahrenheit.) /

Melting point: Forty-five degrees to fifty degrees Centigrade (one hundred and thirteen to one hundred twenty-two degrees Fahrenheit.)

Insoluble in water and nearly so in cold alcohol; soluble in about fifty parts of / boiling alcohol; also in ether, chloroform, carbon disulphide, fixed and volatile / oils; only slightly soluble in cold petroleum benzin.

An alcoholic solution of Spermaceti is neutral to litmus paper.

If one gram of Spermaceti be boiled with one gram of anhydrous sodium carbonate / and fifty cubic centimeters of alcohol, and the mixture cooled and filtered, the filtrate upon / being supersaturated with acetic acid, may become turbid, but it should not / afford a precipitate. (Absence of Stearic acid).

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Cetaceum.

Spermaceti.

A concrete substance, obtained from the head of the sperm / whale, *Physeter macrocephalus* Linne (Fam. *Physeteridae*).

Spermaceti occurs in white, somewhat translucent, slightly unctuous masses, / with a scaly, crystalline fracture, a pearly luster, a very faint odor and a bland, / mild taste. It becomes rancid and yellowish in color on prolonged exposure to air. /

It is insoluble in water and nearly so in cold alcohol; soluble in boiling alcohol, / in ether, chloroform, carbon disulphide, or fixed or volatile oils; only slightly / soluble in cold petroleum benzin. Specific gravity 0.938 to 0.944 at twenty five degrees Centigrade as determined by the method given / under *Cera Flava*. It melts between forty two and fifty degrees Centigrade. It dissolves completely in fifty parts of boiling alcohol (paraffin), and the solution / is neutral or not more than slightly acid to moistened litmus paper.

Warm a mixture of about one gram of Spermaceti and ten mils of Ammonia water / until the Spermaceti is melted, then shake it thoroughly in a stoppered vessel for / a few minutes, cool and filter. The filtrate, upon supersaturation with hydrochloric acid, may become turbid, but yields no precipitate (Stearic acid).

Cetaceum.

Spermaceti.

Cetac.

A fatty substance obtained from the head of the sperm whale, *Physeter / macrocephalus* Linne (Fam. *Physeteridae*).

Description and physical properties: White, somewhat translucent, slightly / unctuous masses, having a crystalline fracture, and a pearly lustre. It has a / very faint odor and a bland, mild taste. It is free from rancidity.

Spermaceti is insoluble in water, nearly insoluble in cold alcohol, and only / slightly in cold petroleum benzin. It is soluble in boiling alcohol, ether, / chloroform, carbon disulphide, and in fixed or volatile oils.

Test for purity: Specific gravity, 0.938 to 0.944 at twenty five degrees Centigrade, as determined by the / method given under *Cera Flava*, using alcohol warmed to from thirty-eight to forty degrees Centigrade. Spermaceti melts between forty-two and fifty degrees Centigrade.

It dissolves completely in fifty parts of boiling alcohol (paraffin), and the / solution is neutral or not more than slightly acid to moistened litmus paper.

Warm a mixture of about one gram of Spermaceti and ten cc. of *Ammonia T.S.* / in a stoppered vessel until the Spermaceti is

melted, shake it thoroughly for a / few minutes, cool, and filter;  
on acidulating this filtrate with hydrochloric / acid, it may  
become turbid, but yields no precipitate (stearic acid).

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Summary of Data of U.S.P. 1820-1920.

*Physeter macrocephalus.*

Official in 1820; '30 (Phil.); '30 (N.Y.); '40; '50; '60; '70;  
'80; '90; 1900; '10; '20.

Official Latin Title:

Cetaceum, 1830; (Phil.); '30 (N.Y.); '40; '50; '60; '70;  
'80; '90; 1900; '10; '20.

Spermaceti, 1820.

Official English Title:

Spermaceti, 1820; '30 (Phil.); '30 (N.Y.); '40; '50; '60;  
'70; '80; '90; 1900; '10; '20.

Official Abbreviations:

Cetac. 1910; '20.

Official Synonym:

None.

Scientific Name:

*Physeter macrocephalus*, 1820; '30 (Phil.); '30 (N.Y.);  
'40; '50; '60; '70; '80; '90; 1900; '10; '20.

Family or Natural Order:

Physeteridae, 1910, '20.

Class Mammalia, Order Cetacea, 1880; '90.

*Physeter macrocephalus* Linne, 1900; '10; '20.

Products Used:

A peculiar concrete fatty substance, 1830; '40; '50; '60;  
'70; '80; '90; 1900.

A concrete substance, 1910; '20.

Description:

1830 (N.Y.); '80; '90; 1900; '10; '20.

Official Preparation:

Spermaceti Cerate, 1830; '40; '50; '60; '70; '80; '90.

Dose:

None.

Approved by W. Richtmann

Assoc. Prof. of Pharmacology