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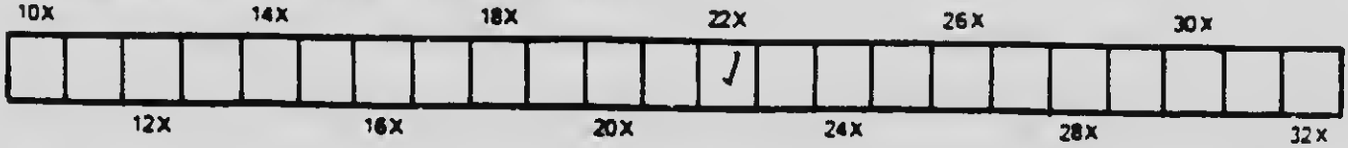

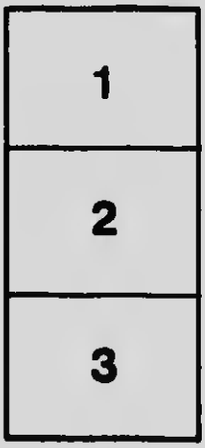

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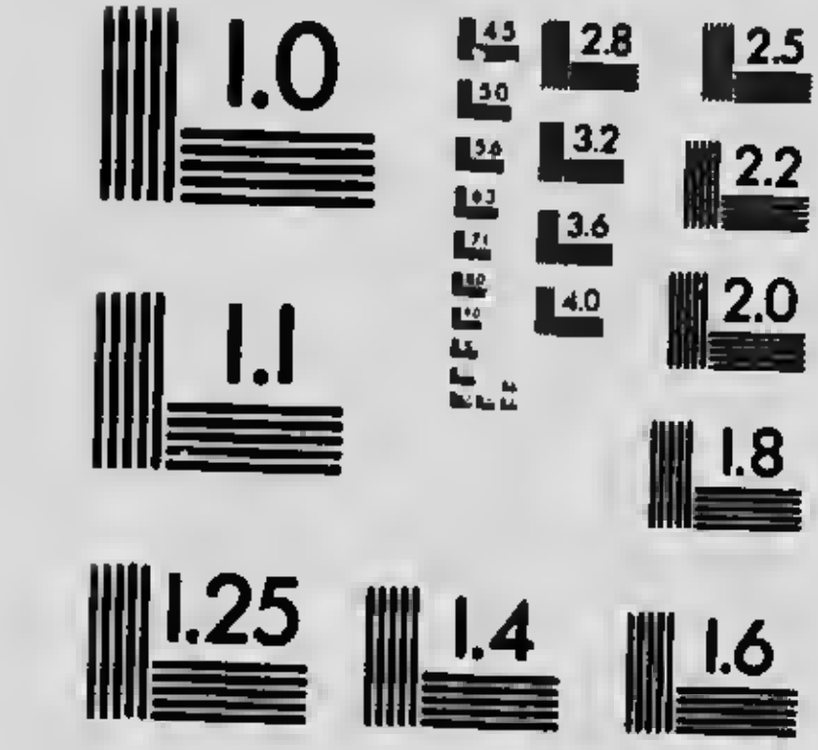

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COMPENDIUM

...OF...

CANADIAN FORMULÆ

Issued and Submitted

FOR

Discussion and Criticism

WITH THE APPROVAL OF

The Council of

The Ontario College of Pharmacy

To the Pharmaceutical and Medical Professions of Canada:

This small pamphlet, containing formulæ of value and interest to physician and pharmacist, is the result of a proposition from the Council of the Ontario College of Pharmacy, recommending the compilation and authorization of a book of standard uniform Canadian formulæ.

The object and desire is to secure the co-operation and assistance of Pharmaceutical and Medical Associations throughout all the Provinces of Canada. This edition is intended to serve as a practical illustration of the proposed object, viz.: the authorization and establishment of uniform and authoritative standards of medicinal articles, required by both professions.

These formulæ are largely selected and compiled from a careful survey and investigation of many recognized authorities, and from earnest and valuable assistance rendered by Professor Heebner, Dean of the Ontario College of Pharmacy; F. W. Flett, Esq., Chairman, and the Pharmacy Committee, Toronto Association, who are worthy of special mention, and many other pharmacists in Ontario.

The Committee cheerfully invite open criticism and discussion on the formulæ contained herein, and earnestly trust to receive suggestions for new and improved formulæ eligible for admission into the book to be finally adopted.

Both Imperial and Metric weights and measures are given throughout the Compendium. It has been somewhat difficult, in the course of a single paragraph to embody formulæ involving definite quantities of materials, to give precise directions for their employment in two different systems of weights and measures, hence those who use the Compendium are requested to avoid the assumption that Imperial and Metric quantities thus placed in juxtaposition are necessarily equivalent to one another. The intention has been to furnish formulæ that will yield liquid products measuring twenty fluid ounces (or a convenient multiple of that figure) or one thousand cubic centimeters. Except for wholly insignificant fractional differences, a preparation made according to either system will contain the same proportions of ingredients: but, as a matter of course, the two systems cannot both be used in the same operation.

W. B. GRAHAM, *President.*

Pharmaceutical Research Committee.

JOHN HARGREAVES,
H. WATTERS,
W. A. KARN,
E. W. CASE,
R. A. HARRISON.

1. ALCOHOL DEODORATUM

DEODORIZED ALCOHOL.

Alcohol (95 per cent.)	160 fl. oz.	5.000 Cc.
Powdered Quicklime	300 grains	20 Gm.
Powdered Alum	150 grains	10 Gm.
Spirit of Nitrous Ether	1¼ fluidrachm	4.5 Cc.

Mix the Lime and Alum intimately by trituration; add to the Alcohol and shake well, then add the Spirit of Nitrous Ether, set aside for seven days and filter through powdered Animal Charcoal.

2. AQUA OLEI ROSAE

WATER OF OIL OF ROSE.

Oil of Rose	1
Calcium Phosphate or Purified Talcum.....	2
Distilled Water	500

Triturate the Oil of Rose with the Phosphate of Calcium (or the Purified Talcum), gradually add the Distilled Water, continually triturating, and filter.

Note.—The following Medicated Waters may be made in the same manner as Water of Oil of Rose, and used in the place of the corresponding *Aqua* of the text of the B. P.:

Aqua Olei Anethi.
Aqua Olei Anisi.
Aqua Olei Carui.
Aqua Olei Cinnamomi.
Aqua Olei Fœniculi.
Aqua Olei Menthæ Viridis.
Aqua Olei Menthæ Piperitæ.
Aqua Olei Pimentæ.

3. CAPSULAE APIOL ET ERGOTINI

CAPSULES OF APIOL AND ERGOTIN.

Each capsule to contain Apiol five (5) minims (0.30 Cc.) and Ergotin two (2) grains (0.13 Gm.).

4. CAPSULAE COLCHICINAE ET METHYL SALICYLATIS

CAPSULES OF SALICYLATE OF COLCHICINE AND METHYL.

Colchicine Salicylate	1 grain	.065 Gm
Methyl Salicylate	1250 minims.	74 Cc.

Dissolve and fill into 250 capsules.

Each capsule contains Colchicine 1-250th grain (0.00025 Gm.), and Methyl Salicylate 5 minims (0.30 Cc.). Dose, one capsule.

5. CERATUM CALENI

GALEN'S CERATE.

Cold Cream.

Liquid Paraffin	16 fluid ounces	160.0	Cc.
White Beeswax	4 ounces	40.0	Gm.
Spermaceti	1 ounce	10.0	Gm.
Borax	30 grains	0.625	Gm.
Oil of Rose	10 minims.	0.2	Cc.
Distilled Water	8 fluid ounces	80.0	Cc.

Dissolve the Borax in the Distilled Water; melt the White Beeswax and Spermaceti with the Liquid Paraffin at a gentle heat; pour the mixture into a warmed mortar and add while yet hot the Borax solution previously warmed, with constant trituration, and finally the Oil of Rose and continue the trituration until cold.

In hot weather the quantity of White Beeswax may be increased to 5½ ounces (53 Gm.) and the Spermaceti to 2 ounces (20 Gm.).

6. CHLORAL CAMPHORATUM

CAMPHORATED CHLORAL.

Chloral	2 ounces	50 Gm
Camphor	2 ounces	50 Gm.

Mix them by agitation in a bottle, or by trituration in a warm mortar until liquified and combined.

7. CHLOROFORMUM CAMPHORATUM

CAMPHORATED CHLOROFORM.

Camphor	2 ounces	200 Gm.
Chloroform	1 fluid ounce	100 Cc.

Dissolve the Camphor in the Chloroform by agitation.

8. COLLODION SALICYLATUM COMPOSITUM

COMPOUND SALICYLATED COLLODION.

Corn Collodion.

Salicylic Acid	1 ounce 45 grains	11 Gm.
Extract of Indian Hemp	30 grains	2 Gm.
Alcohol	1 ounce	10 Gm.
Flexible Collodion, sufficient quantity to make 10 ounces.		100 Gm.

Dissolve the Extract of Indian Hemp in Alcohol and the Salicylic Acid in about 5 ounces (50 Gm.) of Flexible Collodion contained in a tared bottle. Then add the former solution to the latter and finally add enough Flexible Collodion to make 10 ounces (100 Gm.).

9. ELIXIR AMMONII BROMIDI

ELIXIR OF AMMONIUM BROMIDE.

Ammonium Bromide	800 grains	91.5 Gm.
Citric Acid	35 grains	4 Gm.
Aromatic Elixir, a sufficient quantity to make	20 fl. ounces	1,000 Cc.

Dissolve the Ammonium Bromide and Citric Acid in about 10 fluid ounces (or 500 Cc.) of Aromatic Elixir, by agitation. Then add enough Aromatic Elixir to make 20 fluid ounces (1000 Cc.) and filter, if necessary.

Each fluidrachm contains 5 grains (0.32 Cc.) of Ammonium Bromide.

10. ELIXIR ANISI

ELIXIR OF ANISE.

Aniseed Cordial.

Anethol	65 minims.	3.5 Cc.
Oil of Fennel	10 minims.	0.5 Cc.
Spirit of Bitter Almond	4 fluidrachms	12. Cc.
Deodorized Alcohol	9½ fl. ounces	240. Cc.
Syrup	25 fl. ounces	625. Cc.
Water	5 fl. ounces	125. Cc.
Magnesium Carbonate	4½ drachms	15 Gm.

Mix the Anethol, the Oil and the Spirit of Bitter Almond with the Deodorized Alcohol, add the Syrup and Water and set the mixture aside for twelve hours. Then mix it intimately with the Magnesium Carbonate and filter it through a wetted filter, returning the first portions of the filtrate until it runs through clear.

11. ELIXIR AROMATICUM

AROMATIC ELIXIR.

Compound Spirit of Orange	230 minims.	12 Cc.
Syrup	14 fl. ounces	375 Cc.
Precipitated Calcium Phosphate	285 grains	15 Gm.
Deodorized Alcohol and Distilled Water, a sufficient quantity of each to make	40 fl. ounces	1000 Cc.

To the Compound Spirit of Orange add enough Deodorized Alcohol to make 10 fluid ounces (250 Cc.). In this solution add the syrup in several portions, agitating after each addition and afterwards add in the same manner 14 fluid ounces (375 Cc.) of Distilled Water. Mix the Calcium Phosphate intimately with the liquid and then filter through a wetted filter, returning the first portions of the filtrate until a transparent liquid is obtained. Lastly, wash the filter with a mixture of one part of Deodorized Alcohol to three parts of Water until the product measures 40 fluid ounces (1000 Cc.).

12. ELIXIR AURANTII

ELIXIR OF ORANGE.

Simple Elixir.

Spirit of Orange	4 fl. ounces	4 Ce.
Deodorized Alcohol	25 fl. ounces	25 Ce.
Simple Syrup	40 fl. ounces	40 Ce.
Distilled Water	31 fl. ounces	31 Ce.

Talcum, a sufficient quantity.

Mix the several ingredients in the order named; shake occasionally and filter through Talcum until clear.

13. ELIXIR CALCII ET SODII GLYCERO PHOSPHATIS

ELIXIR OF GLYCERO-PHOSPHATE OF CALCIUM AND SODIUM.

Glycero-Phosphate of Calcium	320 grains	18.3	Gm.
Glycero-Phosphate of Sodium	160 grains	9.15	Gm.
Gluside	5 grains	0.286	Gm.
Concentrated Phosphoric Acid	150 grains	8.58	Gm.
Tincture of Fresh Sweet-Orange Peel	1¼ fl. ounce	31.25	Ce.
Glycerin	7½ fl. ounces	187.5	Ce.
Sherry	10 fl. ounces	250.	Ce.
Distilled Water, sufficient quantity to make	40 fl. ounces	1000	Ce.

Dissolve the Glycero-Phosphates of Calcium and Sodium in ten fluid ounces (250 Ce.) of Distilled Water with which the Concentrated Phosphoric Acid has been previously mixed. Then add the Glycerin, Sherry and the Gluside dissolved in the Tincture of Orange and enough Distilled Water to make the finished elixir measure 40 fluid ounces (1000 Ce.). Filter through paper sprinkled with Talcum.

Note—Each fluidrachm contains Glycero-Phosphate of Calcium, 1 grain (0.065 Gm.); Glycero-Phosphate of Sodium, ½ grain (.0325 Gm.).

14. ELIXIR LITHIA SALICYLATIS

ELIXIR OF LITHIUM SALICYLATE.

Lithium Salicylate	800 grains	91.5	Gm.
Aromatic Elixir, sufficient quantity to make	40 fl. ounces	1000	Ce.

Dissolve the Lithium Salicylate in about 36 fluid ounces (900 Ce.) of Aromatic Elixir by agitation. Then add enough Aromatic Elixir to make 40 fluid ounces (1000 Ce.) and filter.

Each fluidrachm contains 5 grains (0.325 Gm.) of Lithium Salicylate.

15. ELIXIR PEPSINI COMPOSITUM

COMPOUND ELIXIR OF PEPSIN.

Elixir Digestivum Compositum.
Elixir of Digestive Ferments.
Elixir of Lactated Pepsin.

Pepsin	175 grains	10 Gm.
Pancreatin	17½ grains	1 Gm.
Diastase	17½ grains	1 Gm.
Lactic Acid	1 fl. drachm	3 Gm.
Hydrochloric Acid	2 fl. drachms	6 Cc.
Glycerin	10 fl. ounces	250 Cc.
Water	5 fl. ounces	125 Cc.
Tincture of Cudbear	5 fl. ounces	125 Cc.
Compound Tincture of Cardamom	2 fl. ounces	50 Cc.
Purified Talcum	1 av. ounce	30 Gm.
Aromatic Elixir, sufficient quantity to make	40 fl. ounces	1000 Cc.

Mix the Acids with the Glycerin and Water, add the Pepsin, Pancreatin and Diastase to this mixture, and macerate with occasional agitation until solution is apparently effected. Then add the Tincture of Cudbear and enough Aromatic Elixir to make 40 fluid ounces (1000 Cc.). Incorporate the Purified Talcum thoroughly with the mixture and filter.

Note.—The best commercial variety of Diastase capable of converting the largest amount of Starch into Dextrin and Glucose, should be used for this preparation.

16. ELIXIR POTASSII BROMIDI

ELIXIR OF POTASSIUM BROMIDE.

Potassium Bromide	3 ounces 288 grains	183. Gm.
Distilled Water	7 fl. ounces	175. Cc.
Solution of Carmine	35 minims.	2. Cc.
Elixir of Orange, a sufficient quantity to make	40 fl. ounces	1000 Cc.

Dissolve the Potassium Bromide in the Distilled Water and about 25 fluid ounces (625 Cc.) of the Elixir of Orange by agitation; add the Solution of Carmine and sufficient Elixir of Orange to make 40 fluid ounces (1000 Cc.). Let stand a few hours and filter.

Each fluidrachm contains 10 grains (0.65 Gm.) of Potassium Bromide.

17. ELIXIR RHEI ET MAGNESII ACETATIS

ELIXIR OF RHUBARB AND MAGNESIUM ACETATE.

Calcined Magnesia	355 grains	20 Gm.
Acetic Acid	a sufficient quantity.	

Fluid Extract of Rhubarb	5 fl. ounces	125	Cc.
Aromatic Elixir, sufficient quantity to make	40 fl. ounces	1000	Cc.

Dissolve the Magnesia in 6 fluid ounces (150 Cc.) of Acetic Acid with the aid of a gentle heat, adding, if necessary, a little more Acetic Acid, drop by drop until the solution is neutral to test-paper. Then add the Fluid Extract and enough Aromatic Elixir to make 40 fluid ounces (1000 Cc.) and filter.

Each fluidrachm represents about 4 grains (or .26 Gm.) of Magnesium Acetate and 7½ grains (or 0.5 Gm.) of Rhubarb.

18. ELIXIR TERPINI HYDRATIS ET CODEINAE

ELIXIR OF TERPIN HYDRATE AND CODEINE.

Terpin Hydrate	320 grains	18.3	Gm.
Codeine Phosphate	40 grains	2.29	Gm.
Gluside	10 grains	0.572	Gm.
Tincture Fresh Sweet-Orange Peel	1¼ fl. ounces	31.25	Cc.
Alcohol (95 per cent.)	13 fl. ounces	325	Cc.
Glycerin	20 fl. ounces	500	Cc.
Elixir of Orange, sufficient quantity to make	40 fl. ounces	1000	Cc.

Dissolve the Terpin Hydrate, Codeine Phosphate and Gluside in the Alcohol with a gentle heat, add the Tincture of Orange, Glycerin and enough Elixir of Orange to make 40 fluid ounces (1000 Cc.).

Each fluidrachm contains Terpin Hydrate, 1 grain (0.065 Gm.) and Codeine Phosphate, 1-8th grain (0.008 Gm.).

19. ELIXIR TERPINI HYDRATIS ET HEROINAE

ELIXIR OF TERPIN HYDRATE AND HEROINE.

Terpin Hydrate	320 grains	18.3	Gm.
Heroine Hydrochloride	13 1-3 grains	0.763	Gm.
Gluside	10 grains	0.572	Gm.
Tincture of Vanilla (1 in 10)	1¼ fl. drachms	4	Cc.
Brandy	5 fl. drachms	16	Cc.
Alcohol (95 per cent.)	15 fl. ounces	375	Cc.
Glycerin	20 fl. ounces	500	Cc.
Distilled Water, a sufficient quantity to make	40 fl. ounces	1000	Cc.

Dissolve the Terpin Hydrate, Heroine Hydrochloride and the Gluside in the Alcohol with a gentle heat; add the Tincture of Vanilla, Brandy, Glycerin and lastly enough Distilled Water to make 40 fluid ounces (1000 Cc.).

Each fluidrachm contains Terpin Hydrate, 1 grain (0.065 Gm.) and Heroine Hydrochloride 1-24th grain (0.0025 Gm.).

20. ESSENTIA PEPSINA

ESSENCE OF PEPSIN.

Elixir of Pepsin.

Glycerin of Pepsin, B. P.	4 fl. ounces	100	Cc.
Sherry	5 fl. ounces	125	Cc.
Glycerin	5 fl. ounces	125	Cc.
Alcohol (95 per cent.)	3½ fl. ounces	87.5	Cc.
Tincture of Fresh Sweet-Orange Peel	5 fl. drachms	15.625	Cc.
Distilled Water, sufficient quantity to make	40 fl. ounces.	1000	Cc.

Mix and filter through paper sprinkled with Talcum.

21. EXTRACTUM CASCARAE SAGRADA AROMATICUM FLUIDUM

AROMATIC FLUID EXTRACT OF CASCARA SAGRADA.

Aromatic Cascara Sagrada.

Cascara Sagrada Bark, prime, two years old, in coarse powder.	5 lbs.	2268.	Gm.
Licorice Root, in coarse powder.	10 ounces	284.00	Gm.
Calcined Magnesia, fresh	12½ ounces	354.37	Gm.
Gluside	40 grains	.260	Gm.
Oil of Coriander	15 minims.	.882	Cc.
Oil of Anisi	20 minims.	1.17	Cc.
Rectified Spirit	15 fl. ounces	425.70	Cc.
Glycerin	10 fl. ounces	283.80	Cc.
Water	1¾ gallons	7.95	Litre

Mix the Cascara, Licorice and Magnesia thoroughly; add the water in portions, mixing well. Place the mass over a water-bath or steam-bath, and heat for four hours or until the bitter taste has almost or entirely disappeared. Pack the mass in a percolator and percolate with Distilled Water until exhausted. Evaporate the percolate over a water-bath or steam-bath to 55 fluid ounces (1560.90 Cc.).

Dissolve the Gluside, Oil of Coriander and Oil of Anisi in the Alcohol; mix with the Glycerin and then with the concentrated percolate by shaking thoroughly.

Note.—Other Aromatic Oils may be substituted for the Oils of Coriander and Anisi, if desired.

22. EMULSIO OLEI MORRHUAE

EMULSION OF COD LIVER OIL.

Cod Liver Oil	10 fl. ounces	500.	Cc.
Powdered Acacia	2½ ounces	125.	Gm.
Solution of Gluside	1 fl. drachm	7.5	Cc.
or			
Tolu Syrup	2 fl. ounces	100.	Cc.
Flavoring	as desired.		
Water, sufficient quantity to make.	20 fl. ounces	1000.	Cc.

Triturate the Oil and Acacia together in a mortar. Add at once to the mixture of Oil and Acacia 5 fluid ounces (250 Cc.) of Water, having a temperature not less than 70°C., triturating briskly until a thick creamy emulsion is produced. To this add the desired flavoring, the Solution of Gluside or Syrup of Tolu, and enough Water to make 20 fluid ounces (1000 Cc.).

Note.—Hypophosphites of Calcium or Sodium can be included in this Emulsion by dissolving in the water.

23. EMULSIO OLEI MORRHUÆ CUM PEPSINA

Cod Liver Oil	144 fl. ounces	4082.40	Cc.
The Yolks of Twenty-four Eggs		24	Gm.
Glycerin	24 fl. ounces	680.40	Gm.
White Sugar	40 ounces	1174.	Gm.
Compound Powder of Acacia	4½ ounces	127.8	Gm.
Lime Water	72 fl. ounces	2041.20	Cc.
Diluted Phosphoric Acid	9 fl. ounces	255.15	Cc.
Essence of Pepsin	24 fl. ounces	680.40	Cc.
Flavor, as required (if Essential Oils)	3 fl. drachms	9.15	Cc.

Rub the Yolks of Eggs in a mortar (whites of half the number of Eggs may be added with advantage) until a smooth paste results; add the Glycerin and triturate vigorously. Add the Compound Powder of Acacia, then the Cod Liver Oil in portions of about 8 fluid ounces (230 Cc.) at a time. When the Oil is emulsified add the Lime Water containing the Sugar in solution and stir vigorously; then add the Diluted Phosphoric Acid and finally the Essence of Pepsin, and stir vigorously for fifteen minutes. Allow the emulsion to stand for two hours, and strain through cheese cloth.

24. FLAVORS FOR EMULSION

The quantities given below are intended for 40 fluid ounces (1000 Cc.) of finished emulsion.

1. Oil of Gaultheria	78 minims.	4.	Cc.
2. Oil of Gaultheria	40 minims.	2.	Cc.
Oil of Sassafras	40 minims.	2.	Cc.
3. Compound Spirit of Orange	30 minims.	1.5	Cc.
4. Oil of Gaultheria	40 minims.	2.	Cc.
Oil of Bitter Almond	4 minims	0.25	Cc.
Oil of Coriander	4 minims.	0.25	Cc.
5. Oil of Gaultheria	30 minims.	1.5	Cc.
Oil of Sassafras	30 minims.	1.5	Cc.
Oil of Bitter Almond	4 minims.	0.25	Cc.
6. Oil of Gaultheria	48 minims	2.5	Cc.
Oil of Bitter Almond	48 minims.	2.5	Cc.
7. Oil of Neroli	30 minims.	1.5	Cc.
Oil of Bitter Almond	30 minims.	1.5	Cc.
Oil of Cloves	4 minims.	0.25	Cc.

25. GARGARISMA CHLORI

CHLORINE GARGLE.

Powdered Potassium Chlorate	10 grains	1.15 Gm.
Hydrochloric Acid	30 minims.	3.25 Cc.
Distilled Water, sufficient to make....	20 fl. ounces	1000 Cc.

Add the Acid to the Chlorate in a large bottle; when the gas given off has displaced the air, add the water gradually, corking and shaking the bottle after each addition.

Note.—Sodium Chlorate is preferred to the Potassium salt, being less nauseous.

26. GLYCERINUM BELLADONNAE

GLYCERIN OF BELLADONNA.

Green Extract of Belladonna	1 ounce	28.4 Gm.
Boiling Distilled Water	1 fl. drachm	3.5 Cc.
Glycerin, sufficient quantity to make...	2 fl. ounces	56.8 Cc.

Rub together in a warm mortar the Extract of Belladonna and the boiling Distilled Water to produce a smooth paste; then add sufficient Glycerin to make 2 fluid ounces (56.8 Cc.).

27. GLYCERINUM HEROINAE COMPOSITUM

COMPOUND GLYCERIN OF HEROINE.

Glycaphorm.

Heroine Hydrochloride	10 grains	1.13	Cc.
Chloroform	20 minims	2.09	Cc.
Alcohol	40 minims	4.17	Cc.
Syrup of Roses	10 fl. ounces	500	Cc.
Distilled Water	2 fl. ounces	100	Cc.
Glycerin, sufficient to make	20 fl. ounces	1000	Cc.

Dissolve the Heroine in the Distilled Water and add the Syrup of Roses gradually, shaking after each addition. Dissolve the Chloroform in the Alcohol and add to the Syrup; then add sufficient Glycerin to make 20 fluid ounces (1000 Cc.).

28. GLYCERINUM IODI

GLYCERIN OF IODINE.

Iodine, resublimed	1 part
Glycerin	50 parts

Dissolve the Iodine in the Glycerin with the aid of a gentle heat.

Note.—This forms a useful pigment, the skin does not get hardened by repeated applications and does not peel off.

29. GLICERINUM TALCI COMPOSITUM

COMPOUND GLYCERIN OF TALCUM.

Boric Acid	3 ounces	30 Gm.
Thymol	1 drachm	1.25 Gm.
Menthol	1 drachm	1.25 Gm.
Oil of Eucalyptus	1 drachm	1.25 Gm.
Oil of Wintergreen	2 drachms	2.5 Gm.
Purified Talcum	50 ounces	500 Gm.
Glycerin	5 fl. dr. 36 minims.	35 Cc.
Glycerin	20 fl. ounces	200 Cc.

Dissolve the Thymol and Menthol in the Oils. Boil the Glycerin for five minutes and dissolve in it the Boric Acid, then add the Talcum and the Oils; triturate thoroughly until a homogenous mixture results.

30. LINIMENTUM AMMONII IODIDI

LINIMENT OF AMMONIUM IODIDE.

Strong Solution of Ammonia	5 fl. ounces	50 Cc.
Tincture of Iodine	5 fl. ounces	50 Cc.
Glycerin	5 fl. ounces	50 Cc.
Tincture of Camphor	5 fl. ounces	50 Cc.

Mix and agitate.

Note.—On standing the liquid will become colorless, usually with a slight deposit, which may be separated by filtration.

31. LINIMENTUM MENTHOL COMPOSITUM

COMPOUND MENTHOL LINIMENT.

Menthol	1 ounce	10 Gm.
Liniment of Ammonium Iodide	49 fl. ounces	490 Cc.

Mix and shake until the Menthol is dissolved.

32. LIQUOR ANTISEPTICUS

ANTISEPTIC SOLUTION.

Thymol	9 grains	0.5 Gm.
Eucalyptol	9 grains	0.5 Gm.
Oil of Mitcham Peppermint	20 minims	1. Cc.
Oil of Wintergreen	20 minims	1. Cc.
Fluid Extract of Wild Indigo	7½ fl. drachms	16. Cc.
Natural Benzoic Acid	282 grains	16. Gm.
Boric Acid	282 grains	16. Gm.
Talcum	180 grains	10. Gm.
Alcohol (95 per cent.)	15 fl. ounces	375. Cc.
Water	25 fl. ounces	625. Cc.

Makes about 40 fluid ounces (1000 Cc.).

Dissolve the Thymol, Eucalyptol, Oils and Fluid Extract and Benzoic Acid in the Alcohol. Dissolve the Boric Acid in the water

with the aid of heat and add to the alcoholic solution. Then add the Talcum, allow to stand a few hours, cool and filter.

33. LIQUOR AURI ET ARSENII BROMIDI

SOLUTION OF BROMIDE OF GOLD AND ARSENIC.

Arsenious Acid	10 grains	2.5 Gm.
Tribromide of Gold	13 grains	3.25 Gm.
Bromine Water, Distilled Water, of each a sufficient quantity to make	10 fl. ounces	1000 Cc.

Introduce the Arsenious Acid and about 1 1/3 fluid ounces (135 Cc.) of Bromine Water in a flask and heat gently until all free Bromine has disappeared. Then add Bromine Water, 20 to 30 drops at a time, until it will be present in slight excess, or until the solution does not become colorless after some time. Transfer the solution to a porcelain capsule, expel the excess of Bromine with the aid of gentle heat, dilute it with Water to about 9 fluid ounces (900 Cc.), and dissolve in this the Tribromide of Gold, adding enough Water to make 10 fluid ounces (1000 Cc).

Ten (10) minims of this solution contain 1-32 grain (.002 Gm.) of Tribromide of Gold and the equivalent of 1-16 grain (0.004 Gm.) of Tribromide of Arsenic.

Note.—Bromine Water is made by shaking Bromine with about thirty times its weight of Water, occasionally during several hours, and decanting the Water from the undissolved Bromine.

34. LIQUOR BORACIS COMPOSITUS

COMPOUND SOLUTION OF BORAX.

Dobell's Solution.

Borax	131 grains	15 Gm.
Sodium Bicarbonate	131 grains	15 Gm.
Carbolic Acid	26 grains	3 Gm.
Glycerin	5 fl. dr. 36 mins	35 Cc.
Water, a sufficient quantity to make	20 fl. ounces	1000 Cc.

Dissolve the Salts in about 10 fluid ounces (500 Cc.) of Water, and then add the Glycerin and the Carbolic Acid, previously liquefied by warming, and lastly enough Water to make 20 fluid ounces (1000 Cc.).

35. LIQUOR BROMO-CHLORAL COMPOSITUS

COMPOUND SOLUTION OF BROMO-CHLORAL.

Chloral Hydrate	3½ ounces	182.75 Gm.
Potassium Bromide	3½ ounces	182.75 Gm.
Tincture of Indian Hemp	6 fl. drachms	41.65 Cc.
Tincture of Orange Peel	6 fl. drachms	41.65 Cc.
Henbane Juice	3 fl. ounces	165.55 Cc.

Syrup	3¾ fl. ounces	187.5	Cc.
Fluid Extract of Licorice	½ fl. ounce	25	Cc.
Distilled Water, sufficient quantity to make	20 fl. ounces	1000	Cc.

Dissolve the Potassium Bromide in 7 ounces (330 Cc.) of Water, and mix all the other ingredients except the Water together. Add the solution of Potassium Bromide, filter and wash the filtrate with enough Distilled Water to make (20) twenty fluid ounces (1000 Cc.). Dose, ½ to 2 fl. drams.

36. LIQUOR CARMINI

SOLUTION OF CARMINE.

Carmine	1 ounce, 87 grains	60	Gm.
Solution of Ammonia	7 fl. ounces	350	Cc.
Glycerin	7 fl. ounces	350	Cc.
Water, a sufficient quantity to make	20 fl. ounces	1000	Cc.

Triturate the Carmine to a fine powder in a wedgwood mortar gradually add the Solution of Ammonia, and afterwards the Glycerin under constant trituration. Transfer the mixture to a porcelain capsule and heat it upon a water-bath, constantly stirring, until the liquid is free from ammoniacal odor. Then cool and add enough water to make 20 fluid ounces (1000 Cc.).

37. LIQUOR GLUSIDI

SOLUTION OF GLUSIDE.

Elixir of Saccharin.

Gluside	1 oz. 202.5 grains	73	Gm.
Sodium Bicarbonate	292 grains	33	Gm.
Alcohol	5 fl. ounces	250	Cc.
Water, a sufficient quantity to make	20 fl. ounces	1000	Cc.

Dissolve the Gluside and the Sodium Bicarbonate in 13 fluid ounces (650 Cc.) of Water, filter the solution, add the Alcohol to the filtrate and pass enough Water through the filter to make 20 fluid ounces (1000 Cc.).

Each fluidrachm represents 4 grains (0.26 Gm.) of Gluside.

38. LIQUOR IODI DILUTUS

DILUTED SOLUTION OF IODINE.

Iodine	440 grains	50	Gm.
Iodide of Potassium	600 grains	67.5	Gm.
Distilled Water, a sufficient quantity to make	20 fl. ounces	1000	Cc.

Dissolve.

39. LIQUOR ZINGIBERIS

SOLUTION OF GINGER.

Strong Tincture of Ginger (1 in 2)	10 fl. ounces	500	Cc.
Purified Talcum	6¾ ounces	333.33	Gm.
White Sugar	6¾ ounces	333.33	Gm.
Distilled Water, a sufficient quantity to make	20 fl. ounces	1000	Cc.

Triturate the Tincture of Ginger with the Sugar and Purified Talcum, add the Distilled Water, shake and filter, returning the first portions of filtrate to the filter until a clear liquid is obtained.

40. LOTIO CALAMINÆ

CALAMINE LOTION.

Levigated Calamine	40 grains	2.59	Gm.
Zinc Oxide	20 grains	1.29	Gm.
Glycerin	20 minims.	1.25	Cc.
Water (or Rose Water), a sufficient quantity to make	1 fl. ounce	28.4	Cc.

Elutriate the Calamine and Zinc Oxide by triturating them in a mortar with successive portions of the Water and decanting from the silicious matter, then add the Glycerin.

41. LOTIO CALCIS SULPHURATA

SULPHURATED LIME LOTION.

Vleminck's Solution.

Slaked Lime	3 oz. 132 grains	165	Gm.
Sublimed Sulphur	5 ounces	250	Gm.
Distilled Water, a sufficient quantity to make	20 fl. ounces	1000	Gm.

Mix the Slaked Lime with the Sulphur and add the mixture gradually to 33 fluid ounces (1650 Cc.) of boiling water. Then boil the whole under constant stirring until it measures 20 fluid ounces (1000 Cc.), strain, and having allowed the solution to become clear by standing in a well stoppered bottle decant the clear brown liquid and keep it in completely filled and well stoppered bottles.

42. MISTURA BUTYL-CHLORAL

Butyl-Chloral Hydrate	80 grains	9.1	Gm.
Glycerin	5 fl. drachms	35.	Cc.
Distilled Water, a sufficient quantity to make	20 fl. ounces	1000	Cc.

Mix and dissolve. Dose, one fluid ounce.

43. OLEUM RICINI AROMATICUM

AROMATIC CASTOR OIL.

Sweet Castor Oil.

Glnside	7½ grains	0.4	Gm.
Chloroform	75 minims.	4	Cc.
Oil of Pimenta	38 minims	2.00	Cc.
Oil of Cassia	38 minims	2.00	Cc.
Oil of Cloves	38 minims	2.00	Cc.
Castor Oil, a sufficient quantity to make	40 fl. ounces	1000	Cc.

Mix the Oils and dissolve the Glnside in the mixture; add the solution to the Castor Oil, then add the Chloroform and shake vigorously.

44. PASTA IODI ET AMYLI

IODINE AND STARCH PASTE.

Starch, in powder	1 ounce	10 Gm.
Glycerin	2 ounces	20 Gm.
Water	6 ounces	60 Gm.
Diluted Solution of Iodine	1 ounce	10 Gm.

Boil the Starch in the Glycerin and Water; when nearly cold add the Solution of Iodine and mix thoroughly.

45. PULVIS ACETANDILIDI COMPOSITUS

COMPOUND POWDER OF ACETANILIDE.

Acetanilide	7 ounces	70 Gm.
Caffeine	1 ounce	10 Gm.
Sodium Bicarbonate	2 ounces	20 Gm.

Reduce the ingredients separately to a fine powder and mix them thoroughly.

Dose: 3 to 5 grains.

46. PULVIS PRO MISTURA CRETÆ

POWDER FOR CHALK MIXTURE.

Prepared Chalk	50 grains	5.0 Gm.
Powdered Tragacanth	7 grains	0.7 Gm.
Powdered Sugar	100 grains	10.0 Gm.

Mix the powders and keep in a stoppered bottle.

When required for making Chalk Mixture use 40 grains (2.6 Gm.) of the powder to each fluidounce (28.4 Cc.) of Cinnamon Water.

47. PULVIS ACACIAE COMPOSITUS

COMPOUND ACACIA POWDER.

Powdered Acacia	5 parts
Powdered Tragacanth	5 parts
Powdered Starch	5 parts
Powdered Sugar	5 parts
Powdered Boric Acid	1 part

Triturate the powders together until thoroughly mixed.

Note.—Recommended as an emulsifying agent.

48. SPIRITUS AURANTII

SPIRIT OF ORANGE.

Fresh Oil of Sweet-Orange Peel	1 fl. ounce	10 Cc.
Deodorized Alcohol	9 fl. ounces	90 Cc.

Mix.

49. SPIRITUS AURANTII COMPOSITUS

COMPOUND SPIRIT OF ORANGE.

Oil of Orange Peel	4 fl. ounces	200 Cc.
Oil of Lemon	1 fl. ounce	50 Cc.
Oil of Coriander	3 fl. drms 12 minims	20 Cc.
Oil of Anisi	48 minims	5 Cc.
Deodorized Alcohol, sufficient to make	20 fl. ounces	1000 Cc.

Mix them. Keep in completely filled, well stoppered bottles, in a cool dark place.

50. SAL CAROLINUM FACTITIUM

ARTIFICIAL CARLSBAD SALT.

Dried Sodium Sulphate	44 parts
Potassium Sulphate	2 parts
Sodium Chloride, purified	18 parts
Sodium Bicarbonate	36 parts

Triturate the ingredients, previously well dried to a fine uniform powder. The dried Sodium Sulphate is prepared by slowly drying the crystalline salt until it has lost one-half its weight.

Note.—Fifty-three grains to one pint of water is similar to Carlsbad Water.

51. SPIRITUS AMYGDALÆ AMARÆ

SPIRIT OF BITTER ALMOND.

Oil of Bitter Almond	70 minims.	10 Cc.
Alcohol (95 per cent.)	16 fl. ounces	800 Cc.
Distilled Water, a sufficient quantity to make	20 fl. ounces	1000 Cc.

Dissolve the Oil in the Alcohol, and add enough water to make 20 fluid ounces (1000 Cc.).

52. SYRUPUS CODEINAE PHOSPHATIS

Codeine Phosphate	40 grains	4.57	Gm.
Alcohol	7 fl. drachms	47.5	Cc.
Distilled Water	3 fl. drachms	18.75	Cc.
Syrup, a sufficient quantity to make	20 fl. ounces	1000	Cc.

Dissolve the Codeine Phosphate in the Water and Alcohol, then add the Syrup.

Note.—Recommended as more stable than the official Syrup of Codeine. Strength is identical with Syrupus Codeinæ, B. P.

53. SYRUPUS GLYCYRRHIZÆ AROMATICUS

AROMATIC SYRUP OF LICORICE.

Licorice Root, cut small	8 ounces	200	Gm.
Solution of Ammonia	1 fl. ounce	25	Cc.
Oil of Coriander	20 minims.	1.02	Cc.
Oil of Cloves	10 minims.	0.5	Cc.
Alcohol (95 per cent.)	2 fl. ounces	50	Cc.
Granulated Sugar	27 ounces	675	Gm.
Distilled Water, a sufficient quantity to make	40 fl. ounces	1000	Cc.

Macerate the Licorice Root with 16 fluid ounces (400 Cc.) of Distilled Water mixed with 160 minims. (8.33 Cc.) of Solution of Ammonia, for twelve hours; strain and express, reserving the colature. Repeat this operation with the pressed mare and new menstruum of Ammonia and Water twice, straining, pressing and reserving the colature after each maceration.

Mix the several colatures and evaporate over a water-bath until the liquid is concentrated to 16 fluid ounces (400 Cc.), then cool and filter. To the filtrate add the Oils, previously dissolved in the Alcohol, and dissolve the Sugar, by percolation, in the mixed liquids, adding enough to make the finished product measure 40 fluid ounces (1000 Cc.).

If preferred, the following formula may be substituted for the foregoing:

Fluid Extract of Licorice (for Quinine mixtures)	8 fl. ounces	200	Cc.
Oil of Coriander	20 minims.	1.02	Cc.
Oil of Cloves	10 minims.	0.5	Cc.
Alcohol (95 per cent.)	2 fl. ounces	50	Cc.
Granulated Sugar	27 ounces	675	Gm.
Distilled Water, a sufficient quantity to make	40 fl. ounces	1000	Cc.

Mix the Fluid Extract with the Alcohol in which the Oils have been previously dissolved, and 8 fluid ounces (200 Cc.) of Distilled Water, in which dissolve the Sugar, adding Distilled Water to make the finished product measure 40 fluid ounces (1000 Cc.).

54. SYRUPUS HYPOPHOSPHITUM COMPOSITUS

COMPOUND SYRUP OF HYPOPHOSPHITES.

Calcium Hypophosphite	2¼ oz. 58 grains	29.4	Gm.
Sodium Hypophosphite	2¾ oz. 80 grains	36.56	Gm.
Potassium Hypophosphite	1¼ oz. 94 grains	18.28	Gm.
Manganese Hypophosphite	80 grains	2.29	Gm.
Quinine	40 grains	1.14	Gm.
Strychnine	10 grains	0.28	Gm.
Ferrous Sulphate, in crystals	120 grains	3.43	Gm.
Hypophosphorous Acid, dilute	a sufficient quantity.		
Concentrated Phosphoric Acid	45 minims.	1.17	Cc.
Granulated Sugar	65 ounces	812.5	Gm.
Distilled Water, a sufficient quantity to make	80 fl. ounces	1000	Cc.

Dissolve the Sodium and Potassium Hypophosphites and 960 grains (27.1 Gm.) of Calcium Hypophosphite in 35 fluid ounces (437.5 Cc.) of boiling Distilled Water. Dissolve the Manganese Hypophosphite in 5 fluid ounces (62.5 Cc.) of hot Distilled Water, and dissolve the Alkaloids in this solution, with the aid of a minimum quantity of Dilute Hypophosphorous Acid. Mix the two solutions and filter, if necessary. Make a syrup by dissolving the Sugar in the filtrate by percolation. Dissolve the Ferrous Sulphate in 6 fluid drachms (9.38 Cc.) of Water, with the aid of the Concentrated Phosphoric Acid. Also dissolve 82 grains (2.3 Gm.) of Calcium Hypophosphite in 6 fluidrachms (9.38 Cc.) of Water; mix this solution with the Ferrous Solution, let the mixture stand for twelve hours and filter out the precipitate. (The filtrate will contain approximately 80 grains of Ferrous Hypophosphite.) Mix the filtrate with the Syrup and pass enough Water through the percolator to make the finished product measure 80 fluid ounces (1000 Cc.).

Note.—Each fluid ounce of this Syrup contains Sodium Hypophosphite, 16 grains; Calcium Hypophosphite, 12 grains; Potassium Hypophosphite, 8 grains; Manganese and Ferrous Hypophosphites, 1 grain each; Quinine, 1-2 grain, and Strychnine, 1-8 grain.

Dose.—One to two fluidrachms.

55. SYRUPUS RUBI AROMATICUS

AROMATIC SYRUP OF BLACKBERRY.

Blackberry Root	5 ounces	125 Gm.
Cinnamon	262 grains	15 Gm.
Nutmeg	262 grains	15 Gm.
Cloves	140 grains	8 Gm.
Allspice	140 grains	8 Gm.
Granulated Sugar	26 ounces	650 Gm.
Alcohol (95 per cent.)		
Water, Blackberry Juice, of each a sufficient quantity to make	40 fl. ounces	1000 Ce.

Reduce the Rubus (Blackberry Root) and the Aromatics to a moderately coarse (No. 40) powder and percolate in the usual manner with a menstruum of equal volumes of Alcohol and Water until 10 fluid ounces (250 Ce.) of percolate are obtained. To this add 18 fluid ounces (450 Ce.) of Blackberry Juice, and dissolve the Sugar in the liquid by agitation. Lastly, add enough Blackberry Juice to make 40 fluid ounces (1000 Ce.).

56. SYRUPUS ZINGIBERIS

SYRUP OF GINGER.

Solution of Ginger	1 volume
Simple Syrup	9 volumes

Mix.

Note.—This preparation is identical in strength with the official Syrup of Ginger.

57. TINCTURA AURANTII CORTICIS DULCIS RECENTIS

TINCTURE OF FRESH SWEET-ORANGE PEEL.

Fresh Sweet-Orange Peel	5 ounces	250 Gm.
Rectified Spirit, a sufficient quantity to make	20 fl. ounces	1000 Ce.

Prepare by maceration.

58. TINCTURE FERRI CITRO-CHLORIDI

TINCTURE OF CITRO-CHLORIDE OF IRON.

Strong Solution of Perchloride of Iron	5 fl. ounces	250 Ce.
Sodium Citrate	9¼ av. ounces	460 Gm.
Alcohol (95 per cent.)	3¼ fl. ounces	160 Ce.
Water, a sufficient quantity to make	20 fl. ounces	1000 Ce.

Mix the Solution of Chloride of Iron with 5 fluid ounces (250 Ce.) of Water, and dissolve in this mixture the Sodium Citrate with the aid of a gentle heat. Then add the Alcohol, and when the solution has become cold, make up the volume with water to 20 fluid ounces (1000 Ce.). Set the product aside in a cold place for a few days, if

convenient, so that the excess of saline matter may separate. Then filter and pass enough cold Water through the filter to restore the original volume.

Note.—This preparation is identical in strength of Ferric Chloride, with Tincture Ferri Perchloridi, P. B.

59. TINCTURA IODI, CHURCHILL

CHURCHILL'S TINCTURE OF IODINE.

Iodine, resublimed	3 oz. 131 grains	165 Gm.
Potassium Iodide	289 grains	33 Gm.
Water	5 fl. ounces	250 Cc.
Alcohol (95 per cent.), a sufficient quantity to make	20 fl. ounces	1000 Cc.

Dissolve the Potassium Iodide in the Water, then add the Iodine, and lastly enough Alcohol to make the Tincture, when completed, measure 20 fluid ounces (1000 Cc.).

60. TINCTURA IODI DECOLORATA

DECOLORIZED TINCTURE OF IODINE.

Iodine	250 grains	26.0 Gm.
Strong Solution of Ammonia	10 fl. drachms	62.5 Gm.
Rectified Spirit, sufficient to make	20 fl. ounces	1000 Cc.

Dissolve the Iodine in the Alcohol and add the Ammonia Solution. Keep the mixture in a warm place until decolorized.

61. TINCTURA PERSIONIS

TINCTURE OF CUDBEAR.

Cudbear, in fine powder	5 ounces	125 Gm.
Alcohol (95 per cent.) and Water, of each a sufficient quantity to make	40 fl. ounces	1000 Cc.

Pack the Cudbear in a suitable percolator and percolate it with a mixture of one volume of Alcohol and two volumes of Water until 40 fluid ounces (or 1000 Cc.) are obtained.

Note.—This preparation is intended as a coloring agent when a bright-red tint or color is to be produced; particularly in acid liquids.

62. UNGUENTUM ACIDI CARBOLICI COMPOSITUM

COMPOUND OINTMENT OF CARBOLIC ACID.

Mercuric Nitrate Ointment	4 ounces	40 Gm.
Sublimed Sulphur	1 ounce	10 Gm.
Phenol	2 ounces	20 Gm.
Olive Oil	2 ounces	20 Gm.
Yellow Wax	2 ounces	20 Gm.

Dissolve the Sulphur in the previously heated Olive Oil and melt the Wax in this solution with a gentle heat. Stir while cooling, and when nearly cold add the Phenol and stir until dissolved. Rub the Mercuric Nitrate Ointment in a mortar until smooth; then incorporate with it the mixture previously prepared.

63. UNGUENTUM ICHTHYOL COMPOSITUM

COMPOUND ICHTHYOL OINTMENT.

Ichthyol	1 ounce	20 Gm.
Solution of Lime	4 fl. ounces	80 Cc.
Anhydrous Wool-Fat	2½ ounces	50 Gm.
Soft Paraffin	5 ounces	100 Gm.
Zinc Ointment	2½ ounces	50 Gm.

Triturate the Ichthyol with the Lime Water; add the Wool Fat gradually, under constant trituration, and then the other ingredients in a similar manner.

64. UNGUENTUM IODI DENIGRESCENS

STAINLESS IODINE OINTMENT.

Iodine	1 ounce	10 Gm.
Soft Paraffin	19 ounces	190 Gm.

Finely powder the Iodine; heat the Paraffin until liquefied, then add the Powdered Iodine, continuing a gentle heat and stirring until fully combined, then remove from heat and stir till cold.

65. UNGUENTUM EMPLASTRI PLUMBI

OINTMENT OF LEAD PLASTER.

Diachylon Ointment.

Lead Plaster	1 ounce	110 Gm.
Soft Paraffin	1 ounce	110 Gm.
Oil of Bergamot	4 minims.	1 Cc.

Melt the Lead Plaster and Paraffin together; when the mixture approaches the temperature of 160° or 170° F., add the Oil and stir until cool.

66. UNGUENTUM RESORCINI COMPOSITUM

COMPOUND RESORCIN OINTMENT.

Resorcin	1 oz. 85 grains	60 Gm.
Zinc Oxide	1 oz. 85 grains	60 Gm.
Bismuth Subnitrate	1 oz. 85 grains	60 Gm.
Oil of Cade	2 fl. oz. 192 minims.	120 Cc.
Soft Paraffin, white	7 ounces	350 Gm.
Hydrous Wool-Fat	7 ounces	350 Gm.

Tritnrate the Resorcin to a fine powder with the aid of a little Ether, and allow the Ether to evaporate; then mix the powders and incorporate with the remainder of the ingredients.

Note.—Darkens on exposure to air and light and should be kept in well closed containers.

67. UNGUENTUM SULPHURIS COMPOSITUM

COMPOUND SULPHUR OINTMENT.

Precipitated Calcium Carbonate	1 ounce	10 Gm.
Sublimed Sulphur	1½ ounce	15 Gm.
Oil of Cade	1½ ounce	15 Gm.
Soft Soap	3 ounces	30 Gm.
Lard	3 ounces	30 Gm.

Mix the Lard with the Soft Soap and Oil of Cade. Then gradually incorporate the Sublimed Sulphur and Precipitated Calcium Carbonate.

68. VINUM PEPSINI

WINE OF PEPSIN.

Pepsin	320 grains	36.36	Gm.
Hydrochloric Acid	2 fl. drachms	12.5	Cc.
Glycerin	1 fl. ounce	50	Cc.
Sherry, a sufficient quantity to make..	20 fl. ounces	1000	Cc.

Dissolve the Pepsin in the liquids previously mixed.

1905

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