

LABORATORY  
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Lemon Flavouring Extract.

OTTAWA, February 28, 1910.

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Deputy Minister of Inland Revenue.

SIR,—I have the honour to present herewith a report upon seventy-five (75) samples, purchased throughout Canada in December last, as Lemon Flavouring Extract.

The last examination of this article was made in 1905, and is reported in Bulletin No. 114.

Lemon Extract is probably more largely used in the household than any other kindred preparation for the flavouring of pastry, &c. It is, of course, valued proportionately to its strength as a flavouring material, and to the quality of the flavour which gives it its name. No legalized standard for Lemon Extract exists in Canada; and in view of the large consumption of the article, it is of importance that it should be defined and legally recognized.

The results now placed in your hands, together with those published in Bulletin No. 114, will suffice to show the character of Lemon Extract as sold in Canada.

Both the British and the United States Pharmacopoeias define a Tincture (or Spirit) of Lemon, and prescribe methods of preparation. Although it is not permissible to identify the Commercial Extract, as sold for flavouring purposes, with the pharmacopoeal tinctures still, as these last are "chiefly used to impart flavour to other medicines" (Squire's Companion, 18th Ed'n, p. 222), it seems reasonable to infer that the same methods of manufacture and the same properties possessed by the tinctures of pharmacy, which commend these last to the medical profession, should be imitated as far as possible by manufacturers of Commercial Extract.

The latest editions of both Pharmacopoeias contain revised formulas for preparation of Tinctura Limonis, as shown in the following table:—

TO MAKE 1,000 PARTS OF TINCTURE (SPIRIT) OF LEMON.

Materials from which made.	BRITISH PHARMACOPOEIA.		U. S. PHARMACOPOEIA.	
	Ed'n 1885.	Ed'n 1898.	Ed'n 1890.	Ed'n 1900.
Name of preparation.	Tincture.	Tincture.	Spirit.	Tincture.
Oil of lemon.....			50	
Fresh lemon peel.....	125	250	50	500
Strength of alcohol employed (Vol. p.c.).....	57	90	95.1	94.9
Volume of product.....	1,000	1,000	1,000	1,000