

## REPORT OF COMMITTEE ON DRUG MARKET.\*

(Concluded from p. 639, August number JOURNAL A. PH. A.)

The following table shows the first report on weight of unit volumes of drugs made in the Analytical Department of the H. K. Mulford Company during the year of June 1, 1921, to June 1, 1922.

This method has been developed for drugs and spices by the Bureau of Chemistry, Washington, D. C., together with analytical data, and has been published in the *Journal Assoc. Off. Agr. Chem.*, 1920; 4, 149, 1921; 4, 409.

The value of this method in judging and selecting drugs will increase as additional reports and analytical data accumulate.

To lessen the individual factor difference in a determination of this kind, the same analyst has made all determinations. In several cases the commercial sample was too small to secure the unit volume. More than one sample was thoroughly mixed, and the weight of unit volume determined on the mixed samples.

Drug.	Volume, cc.	Weight, grams.	Average.	Remarks.	
Asparagus seed	100	82.1	..	Laboratory sample.	
Caraway	200	} 100.2	..		
Caraway	100		50.1	..	
Caraway	100		48.4	..	Includes more than one commercial sample.
Caraway	100	47.9	..	Laboratory sample.	
Caraway	100	50.5	..		
Caraway	100	45.5	48.4		
Cardamom seed	500	} 334.4	..		
Cardamom seed	100		66.6	..	
Cardamom seed	100	66.1	..		
Cardamom seed	100	64.0	..		
Cardamom seed	100	68.0	..		
Cardamom seed	100	66.2	..	Laboratory sample.	
Cardamom seed	100	69.8	..		
Cardamom seed	100	69.7	..		
Cardamom seed	100	69.2	..		
Cardamom seed	100	68.7	..	Includes more than one commercial sample.	
Cardamom seed	100	65.4	67.37		
Cloves	200	78.6	..		
Cloves	200	77.3	77.9		
Cocculus indicus	500	} 192.6	..	500 cc appears to be a more correct volume for this drug.	
Cocculus indicus	200		76.3	..	
Cocculus indicus	200	74.9	..	Laboratory sample.	
Cocculus indicus	200	78.7	76.6		
Cochineal	100	41.2	..		
Colchicum seed	100	71.2	..	Assayed 0.69% colchicine.	
Colchicum seed	100	73.1	..		
Colchicum seed	100	68.4	70.9		
Conium	100	53.2	..	Assayed 0.618 coniine.	
Coriander	100	27.5	..	Laboratory sample.	
Cubeb	500	} 156.6	..		
Cubeb	100		31.1	..	
Cubeb	100	29.3	..	Poor quality.	
Cubeb	100	35.3	..		
Cubeb	100	30.3	..		
Cubeb	100	29.4	..	Poor quality. Includes more than one commercial sample.	

\* Pennsylvania Pharmaceutical Association, Buena Vista Springs, 1922.

Drug.	Volume, cc.	Weight, grams.	Average.	Remarks.
Cubeb	100	31.5	31.1	
Ergot	200	96.1	..	
Ergot	200	97.7	..	
Ergot	200	89.3	..	Laboratory sample.
Ergot	200	97.0	..	
Ergot	200	96.0	95.1	All samples were of good quality.
Ergot	200	94.5	..	Slightly dirty. Activity not equal to other samples.
Juniper berries	100	31.8	..	Laboratory sample.
Juniper berries	100	37.0	..	
Juniper berries	100	33.9	..	
Juniper berries	100	32.0	..	
Juniper berries	100	34.3	33.8	
Juniper berries	100	34.8	..	Includes more than one commercial sample.
Juniper berries	100	33.9	..	
Juniper berries	100	32.2	..	
Larkspur	100	44.8	..	
Larkspur	100	46.6	..	
Larkspur	100	46.2	..	Laboratory sample.
Larkspur	100	44.6	44.7	
Larkspur	100	42.4	..	Includes more than one commercial sample.
Larkspur	100	43.8	..	
Larkspur	100	45.1	..	
<i>Rhamnus cathartica</i>	100	42.4	..	Laboratory sample.
(ripe fruit)	100	44.0	..	
(ripe fruit)	100	43.4	43.2	
<i>R. cathartica</i>	100	51.0	..	Submitted for official drug.
(unripe fruit)	100	51.0	..	
(unripe fruit)	100	50.5	50.8	
Stavesacre	100	34.2	..	Laboratory sample.

Reported by G. A. SLOTHOWER.

The following table shows the results of physiologic assay of 24 crude drugs made in the Physiologic Testing Department of the H. K. Mulford Co. during the year June 1, 1921, to June 1, 1922.

Drug.	No. of samples.	Lowest assay.	Highest assay.	Aver.	Standard.	Number. Above.	Number. Below.
Cannabis	3	120%	120%	120%	0.03 cc fl. ext. per kilo dog = ataxia	3	0
Digitalis	15	100%	250%	160%	M. L. D. = 1.0 cc tincture per 250 Gm. guinea pig	15	0
Ergot	6	78.3%	400%	240%	0.08 cc fl. ext. per kilo of dog = 30 mm. rise in blood pressure	5	1
Totals	24					23	1

Therefore, 95.8% of the crude drugs were above standard.

(Signed) Committee { P. S. PITTINGER,  
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