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I-1y.

any turbid appearance ; an abundant precipitation takes place only on addition of ammonia.

The properties of pectic matters are known to be liable to some change; I found that sometimes the pectic acid is not immediately separated from the ammoniacal solution on addition of acetic acid, but requires the addition of alcohol.

I was curious to know whether pectin must be considered a constituent of the juice of the actual poppy-head or the capsule itself. An assay made with nearly ripe capsules showed that they do not contain any pectinat least I could not obtain it in the same way as I did it from opium. A very considerable proportion of pectin, however, (22 per cent.) BRUSHES, has been found in poppy seeds by Sacc.*-Pharm. Journal, (England).

Note on American Opium from Vermont.

BY WILLIAM PROCTOR, JR.

A few weeks ago my attention was called to a sample of "opium," by Mr. C. Wilson, of Monkton, Addison Co., Vermont, who said he had been requested by persons interested in the success of his enterprise to have it examined. On enquiry as to its origin, Mr. Wilson said it was of his own production in 1-1y the neighborhood above mentioned, and that he had been engaged in the culture for several years, and that it was quite lucrative. After the weather was settled in the spring the seed of the opium poppy (Papaver somniferum) was sown in ground prepared as for a garden, in which the plants grew vigorously, and about the middle of August the capsules attained their size. The collection of the juice was commonced at this time and continued ! until the first of September, when the whole plants were cut, bruised with a porcion of alcohol to prevent fermentation, and then No. 1 Quality. $-1\frac{1}{3}$ oz. Squat Cork'd; 1 oz. Stone Jug; 1oz. Glass Jugs; $\frac{3}{7}$ oz. Panel; $\frac{1}{2}$ oz. Squat; $\frac{3}{3}$ oz. Squat; $\frac{1}{3}$ oz. Oval; $\frac{1}{4}$ oz. Squat: The extra quality are equal to Lubin or Rimmel's Perfumes, at 30 per cent, less cost. Hair Oils Perfumes Theory Works subjected to strong pressure ; the juleo thus Hair Oils, Pomades, Tooth Washes, Tooth fragments of vegetable tissue,) possessing a Powders, Colognes, Lavanders, Sachets, Cam-phor Ice and Roll, Toilet Vinegar, Milk of Roses, etc., in all the popular styles. Price Lists on application to a uniform dark brown color. Its reaction is acid. This year Mr. Wilson obtained 640 acid. This year Mr. Wilson obtained 640 cess, and the fault is in his not knowing the pounds of this opium from six and a quarter real character of the substance he is dealing acres of land, being 100 pounds to the acre, for which he obtained prices varying from eight to ten dollars per pound from druggists and physicians in New England.

When macerated in water it soon breaks down and is readily extracted. The pulpy that the pure exudation from the capsules matter left from 100 grams after percolation with water until exhausted, amounted to 25 grains. One hundred grains carefully dried in a hot air bath weighed 84 grains, and hence contains 16 per cent of moisture. Subjected to the action of duluted alcohol until exhausted, the residue weighed 13 grains .-Treated with ordinary ether and dried, the moist opium lost 20 per cent. of its weight ; but 16 per cent of this loss is due to water in the normal opnum, leaving the ethereal ex-tract equivalent to 4 per cent. The ethereal solution had a light greenish color, due to chlorophyll. On evaporating the ether spontaneously, the residue consisted of numerous

* Annales de Chlinic, et de Physique, xzii. (1850) 463.

minute, well defined crystals of narcotine, a greenish oleo-resinous matter, and the odo-rous matter of the opium. 'The crystals are nearly all prisms, with parallel sides and twosided oblique terminations, and a few stellate groups occur. Separated and wiped, they afford an intense yo'low color to nitric acid, and when treated wi.h sulphuric acid followed by nitrate of potassa, they yield the usual deep red coloration of Orfila's test for narcotina. Benzine extracted 4.5 per cont. of green elastic caoutchouc matter containing narcotina. The aqueous and alcoholic solutions respond freely to the tests for meconic acid.

The morphia present was assayed by the process of Mohr.

100 grains of the moist opium (represent-ing 64 grains dried) was exhausted with repeated portions of cold water and finally percolate., until four fluid ounces of infusion was obtained. This was boiled with 100 grs. of lime previously slaked with some of the weaker liquid for fifteen minutes, filtered hot and the dregs percolated with boiling water till exhausted of the soluble matters of the opium. The alkaline infusion, slightly acidulated with muratic acid, was ovaporated to about half a flund ounce, and when cold neutralized with ammonia and filtered, to separate coloring matter, and then carefully evaporated to about 200 grains, and a slight excess of ammonia added whilst yet warm. After standing twelve hours the crystalline precipitate was carefully collected on a small tarred filter, washed, dried, treated with other and weighed 6.25 grains. This precipitate afforded the characteristic reactions of morphia with nitric acid and sesquichloride of iron.

Now from these results it must be inferred that this new kind of opium contains 5.25 per cent. of morphia in its moist commercial condition, or 7.44 per cent. when it is dry; and that it is much more soluble in water than ordinary opium, affording 75 per cent. of its weight to that fluid. The tincture made from it by the officinal process has the appearance and odor of ordinary laudanum, but of its therapeutic character in relation to Smyrna opum I was wholly uninformed. Now there need be no hesitation in saying that this opium is below the standard of the Pharmacopœia. The maker appears to be entirely candid and honest in his conduct of the prowith, and the importance in medical and hygienic points of view that it be parallel in strength with fair Turkish opium, to obtain and deserve the confidence of physicians, apothecaries and druggists. It is probable unmixed with any foreign matter rarchy reaches us in the opium market, and there may be less impropriety in employing the inspissated juice of the poppy than the various matters that are introduced at Smyrns and elsewhere, to give cons stence to the too soft exudation from the capsule and increase the volume of the product. The fact that 640 pounds of an opium, containing between six and seven per cent. of morphia, was produced in a few weeks after the poppy attained its proper size, and from six and a quarter acres of land, in a climate as far north as Vermont, by a moderate force, seems to warrant the belief that, under intelligent regulations, the culture of opium might be effected in this country so as to be a profitable crop. The