## Pepsin.

somewhat obscure even to the closest observer, in imitating its processes in a vial where we lack the vital agency, the activity of any samples operated on is almost sure to be underated. Nevertheless, experiments conducted carefully under the same conditions are valvable as affording comparative results; and certain is it that wine or any alcoholic fluid is a most unsatisfactory vehicle for pepsin, also, that, when taken with food, it unquestionably retards digestion. The above experiment was several times repeated, first with portions of precisely the same samples, and also with samples by the same makers, but obtained from different sources; the results varied slightly, but bore the same relation to each other. It was thought desirable not to obtain the samples from the manufacturers direct, informing them of the purpose for which they were required, but all were obtained from authentic sources. The pepsin Nos. 1 and 2 were both by the same manufacturer, and, as it will be seen, were of good quality, but it is somewhat anomalous that according to the dose siven the former should have been about five times the strength of the latter, whereas it would appear that there is very little difference between them. The catalytic action seems to be more vigorous in the early part of the process of digestion than towards the end; therefore, had a larger amount of albumen been present in the vial  $N_0$ , I, it is possible a larger amount might have been dissolved, and the residue have been but slightly greater than it actually was. Nevertheless, this could not have been sufficient to account for the great similarity in activity of the two specimens.

Of the process for its preparation as a medicinal agent, that of precipitating its solution by acetate of lead, and subsequent separation of the lead by hydrosulphuric acid, has probably been longest in use, but its activity appears to be more or less injured by the chemical treatment. The process of M. Brucke, consisting of solution in dilute in phosphoric acid, neutralization with lime-water, resolution in dilute hydrochloric acid, and final treatment with cholesterin, rectified spirit, and ether, yields a product possessing active peptic properties, but it is more suitable as a laboratory experiment than for the purpose of manufacture on a commercial for pepsin, but I am not aware of any definite process in which these are used for its preparation on a large scale. Next in order is Pharmaceutic I Commercial N S Vol II = 684 and is as follows:

*pharmaceutical Journal*, N. S., Vol. II., p. 684, and is as follows: "The mucous membrane of a perfectly fresh pig's stomach was board. It was then lightly cleansed with a sponge and a little water, and much of the mucus, remains of food, etc., carefully removed. With the back of a knife or ivory paper knife, the surface was scraped very hard in order that the glands might be squeezed, and their contents pressed out. The viscid mucus thus obtained