

## REPORT OF COMMITTEE ON UNOFFICIAL STANDARDS.

The following portion of the report of the Committee on Unofficial Standards relates to certain crude drugs and chemicals suggested for inclusion in the next revision of the National Formulary, and by order of the Council is published in the JOURNAL in order to afford opportunity for discussion before the standards proposed are finally adopted.

Manufacturers, importers, analysts, and others interested in any of the proposed standards, are requested to send their criticisms and comments to the chairman of the committee, Geo. M. Beringer, 501 Federal St., Camden, N. J.

## APPROVED MONOGRAPHS SUBMITTED AS STANDARDS FOR UNOFFICIAL DRUGS AND CHEMICAL PRODUCTS.

## ALLIUM.

Allium. Garlic.

1. The bulb of *Allium sativum* Linné (Fam. *Liliaceae*). Bulb subglobular, 4 to 6 cm. broad, compound, consisting of 8 to 15 bulbels (so called "cloves") and surrounded by 1 or 2 dry, whitish, membranaceous scales and attached to a flattened circular base from the lower portion of which arise numerous yellowish-white roots, bulbels more or less ovoid, in transverse section 3 to 4 sided, the outer surface being convex, summit acute and narrowed into a thread-like fibrous portion, base truncate, each bulbel covered by one or two layers of whitish, membranaceous scale-like leaves, beneath which is the light brown and pinkish, thin and coriaceous layer of epidermis, cohering but easily separable from the solid portion of the bulbel; odor of broken or bruised bulbel aromatic, disagreeable; taste intensely pungent and persistent.

Under the microscope, transverse sections show three distinct portions: (a) the large fleshy scale consisting chiefly of parenchyma enclosing scattered vascular bundles, epidermis in both ventral and dorsal surfaces consisting of small tabular cells; (b) the middle layer nearly circular in outline, about 0.750 mm. in diameter, the tissues resembling those of the outer fleshy scale, but the cells containing numerous yellowish-brown plastids; (c) an innermost bright green layer consisting of a single leaf folded lengthwise along the midrib so that the ventral surfaces lie close together.

Garlic should be used in the fresh condition only.

## FLORES VERBASCI.

Mullein Flowers.

1. The dried corollas, with adhering stamens, of *Verbascum phlomoides* Linné, or of *V. thapsiforme* Schraeder, (Fam. *Scrophulariaceae*).

2. *Verbascum* flowers should be kept in a tight, dry container.

3. Corolla light-yellow, the outer surface grayish with a fine soft woolly indumentum, the inner surface sparsely hairy and finely veined; tube of the corolla only 1 or 2 mm. long and almost equally broad, the limb from 14 to 30 mm. broad, between wheel-shaped and saucer-shaped, obscurely two-lipped, the unequal lobes rounded-obovate. Stamens five, borne on the base of the corolla, shorter than the corolla, two of them longer than the other three, the filaments thick and fleshy, more or less pilose, especially the three shorter, usually orange colored. Stamen-hairs cylindrical, unicellular, non-branching, surface minutely reticulate, apex rounded, frequently enlarged. Pollen grains smooth, triangular and more or less rounded, 0.025 to 0.030 mm. in diameter. Odor peculiar, agreeable; taste mucilaginous, not agreeable. The flowers impart a yellow color when boiled with water, and a rather permanent green with dilute sulphuric acid, which latter color becomes brown upon the addition of alkalis.

## HYDRANGEA.

Hydrangea. Seven-barks.

1. The dried rhizome of *Hydrangea arborescens* Linné (Fam. *Saxifragaceae*).

2. Rhizome, cylindrical, usually cut into