In January 1925, the writer had occasion to analyze a sample of Donovan's solution which was purchased from a pharmaceutical manufacturer. Using the official method for determining the arsenous iodide the result showed for two determinations 0.514 per cent and 0.508 per cent of arsenous iodide. About a month later another chemist in the same laboratory was requested to repeat the assay and found for two determinations 0.401 per cent and 0.398 per cent of arsenous iodide. There was no change in the percentage of mercuric iodide. The solution was practically colorless. Owing to the large volume of routine work, no further study of this variation in results was undertaken until the following November. The sample was allowed to stand on the laboratory table during this interval of time and had changed to a light brown color, and gave a positive test for free iodine.

A pint sample of Donovan's solution was purchased from two pharmaceutical manufacturers. The solutions were in amber glass containers and were placed in a dark cupboard when received. Both samples were practically colorless. Analysis for the arsenous iodide content gave the following results:

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Sample 3653 Manufacturer A As I a 0.236 \% Sample 3652 A Manufacturer B As I a 0.956 \%
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On December 17th, half of sample 3652 A was transferred to an amber bottle and allowed to stand on the laboratory table. Both containers were half-filled.

In January and February the arsenous iodide was again determined:

		January.	February.
3652 A	Sample in cupboard	0.897% As I_3	0.846% As I ₃
3652 B	Sample on table	0.766% As I $_3$	$0.400\% \text{ As I}_3$
3653	Sample in cupboard	$0.157\% \text{ As } I_3$	0.086% As Ia

A determination of the total arsenic present in samples 3652 B and 3653 gave the following results:

3652 B	Total arsenic	1.001% calculated as As I ₃
3653	Total arsenic	1.053% calculated as As I.

The solutions were not examined again until April. Sample 3652 A showed no change in color while 3652 B and 3653 were both light brown and gave a positive test for free iodine.

CONCLUSIONS.

The arsenous iodide content of Solution of Arsenous and Mercuric Iodide undergoes a rapid change. This change appears to be very much accelerated by exposure to light. The present method for determining the arsenous iodide content is unreliable and should be changed to a determination of the total arsenic present.

Bureau of Chemistry, State of Maryland, Department of Health.

NUMBER OF VOLUMES IN THE LIBRARIES OF THE SURGEONS GENERAL.

The Library of the U. S. Public Health Service (Surgeon General) contains about 9000 volumes; the Library of the Surgeon General of the Army contains nearly 900,000 volumes, bound and unbound.—See p. 334, May Jour. A. Ph. A.