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Comparative Study of Quality Control Test for Eye Preparations as Per IP, BP and USP

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Abstract:The present study deals with a brief review of the quality control tests for the eye preparations as per the different pharmacopoeias. The quality control tests for eye preparations are different in the different pharmacopoeias like IP, BP, and USP. Eye preparations are sterile liquid, semi-solid or solid preparations intended for administration upon the eyeball and/or to the conjunctiva, or for insertion in the conjunctival sac. It is necessary to know the quality requirements of the different pharmacopoeias for the eye preparations as it is required and important to guarantee the quality product and their supply in different markets of the world.

The types of tests/parameters, procedures and the Pharmacopoeial limits/specifications for eye preparations were compared. Certain similarities and differences were observed. The quality control tests for different eye preparations are more elaborately given in IP and BP in comparison to USP. The available tests and limits supplement each other and one pharmacopoeia gives more details on a specific test than the other. For eg: Powders for eye drops and eye lotions, semi-solid eye preparations, ophthalmic inserts were specifically given in BP. The eye preparations like eye solutions or eye lotions was given in USP, eye drops and eye ointments are more specifically given in IP. Other pharmacopoeial test procedures were found to be almost similar but the specifications slightly differ.

Keywords:Quality Control Test, Eye Preparations, IP, BP, USP.

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