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(54) **METHOD FOR PRODUCING BETA-SIALON PHOSPHOR**

(57) Provided is a production method of a β -sialon phosphor that europium ions are solid-solved in β -sialon, including a mixing process for mixing raw materials of the β -sialon phosphor; a burning process for burning the raw materials after the mixing process to form the β -sialon phosphor; a HIP treatment process in which the β -sialon phosphor after the burning process is subjected to a HIP treatment; an annealing process in which the β -sialon

phosphor after the HIP treatment process is subjected to an annealing treatment; and an acid treatment process in which the β -sialon phosphor after the annealing process is subjected to an acid treatment. According to the production method of a β -sialon phosphor, a β -sialon phosphor excellent in luminescence intensity is obtained.

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