

⁸B

⁸B was discovered by Alvarez in the 1950 paper “Three New Delayed Alpha-Emitters of Low Mass” ([1950A157](#)). A 32 MeV proton beam from the Berkeley linear accelerator bombarded a proportional counter filled with ¹⁰BF₃ and delayed heavy particles were observed in the counter. “Two new positron active isotopes, B⁸ and Na²⁰, have been found to decay to excited states of Be⁸ and Ne²⁰, which in turn decay ‘instantaneously’ by alpha-emission. Their half-lives are 0.65±0.1 sec. and 1/4 sec., respectively.”

Adapted from reference ([2012Th01](#))

[1950A157](#) L. W. Alvarez, Phys. Rev. **80**, 519 (1950).

[2012Th01](#) M. Thoennessen, At. Data Nucl. Data Tables **98**, 43 (2012).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”