CLAIMS

1. A method for producing a galactooligosaccharide, characterized by allowing β-galactosidase to react with a substrate in the presence of 5 to 60 mM sodium ions and 0.5 to 8 mM magnesium ions,

wherein the sodium ions are derived from sodium chloride; and

wherein the magnesium ions are derived from magnesium chloride~~.~~

~~2. The production method according to claim 1~~, wherein the method comprises of a two-step reaction by allowing the β-galactosidase derived from a microorganism to react with a substrate to obtain a first-order reaction solution and allowing a different β-galactosidase to subsequently react with the first-order reaction solution in the presence of 5 to 60 mM sodium ions and 0.5 to 8 mM magnesium ions.

~~3~~2. The production method according to claim 1~~ or 2~~, wherein the concentration of sodium ions is 5 mM.

~~4~~3. The production method according to ~~any one of~~ claim~~s~~ 1~~-3~~ or claim 2, wherein the concentration of magnesium ions is from 1.5 to 8 mM.

~~5~~4. The production method according to any one of claims 1-~~4~~3, wherein the at least one type of β-galactosidase used in the production method is derived from a microorganism belonging to the genus Kluyveromyces.