

ABSTRACT

Disclosed herein are a composite semipermeable membrane and a method for producing the same. The composite semipermeable membrane comprises a microporous support membrane and a separation functional layer provided on the microporous support membrane, wherein the separation functional layer contains a condensation product produced by condensation of at least one selected from the group consisting of ions of trialkoxysilanes each having an imidazolium group and a conjugated base of a polymer having at least one acidic group. The composite semipermeable membrane achieves excellent selective separation of divalent ions over monovalent ions, and is suitable for use in various water treatment fields such as seawater desalination and drinking water production.