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(54) **Title:** METHODS OF PRODUCING TISSUE-MIMETIC CONSTRUCTS AND USES THEREOF

(57) **Abstract:** The present invention relates, in various embodiments, to methods of producing a tissue-mimetic construct having a basement membrane, methods of producing an acellular scaffold containing an extracellular matrix (ECM), methods of producing a scaffold comprising a hydrogel that is enriched in ECM components, methods of treating a condition in a subject in need thereof with a tissue-mimetic construct having a basement membrane, and methods of assessing whether an agent is suitable for administering to a tissue. The invention further relates to tissue-mimetic constructs and scaffolds produced in accordance with the methods of the invention.

