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(54) Title: SITE-ACTIVATED BINDING SYSTEMS THAT SELECTIVELY INCREASE THE BIOACTIVITY OF PHENOLIC COMPOUNDS AT TARGET SITES

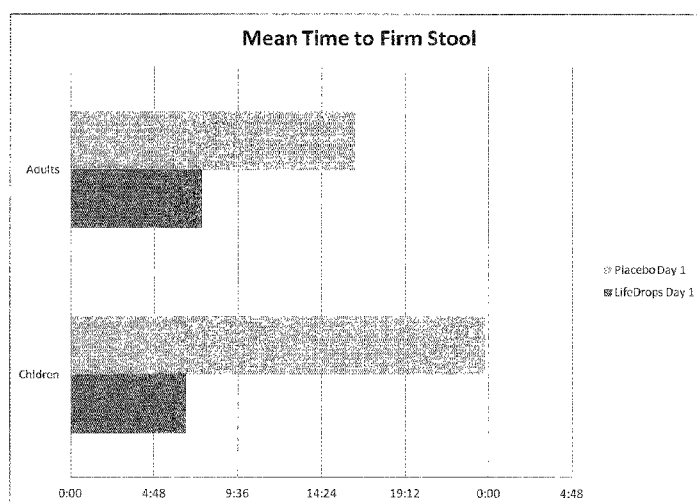


FIG. 6A

(57) Abstract: The teachings provided herein generally relate to site-activated binding systems that selectively increase the bioactivity of phenolic compounds at target sites. The systems can include a phenolic compound bound to a reactive oxygen species, wherein the phenolic compound and the reactive oxygen species can react at a target area in the presence of an oxidoreductase enzyme. The systems can be used, for example, as an antitoxin, an anti-inflammatory, or an antimicrobial. Uses can include treatment of a gastrointestinal condition, a damaged dermal tissue, or a damaged mucosal tissue, as well as in promoting gastrointestinal health that can, for example, result in alleviating gastrointestinal discomfort or, perhaps, creating a weight gain in an animal.



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