

Supplementary materials and methods

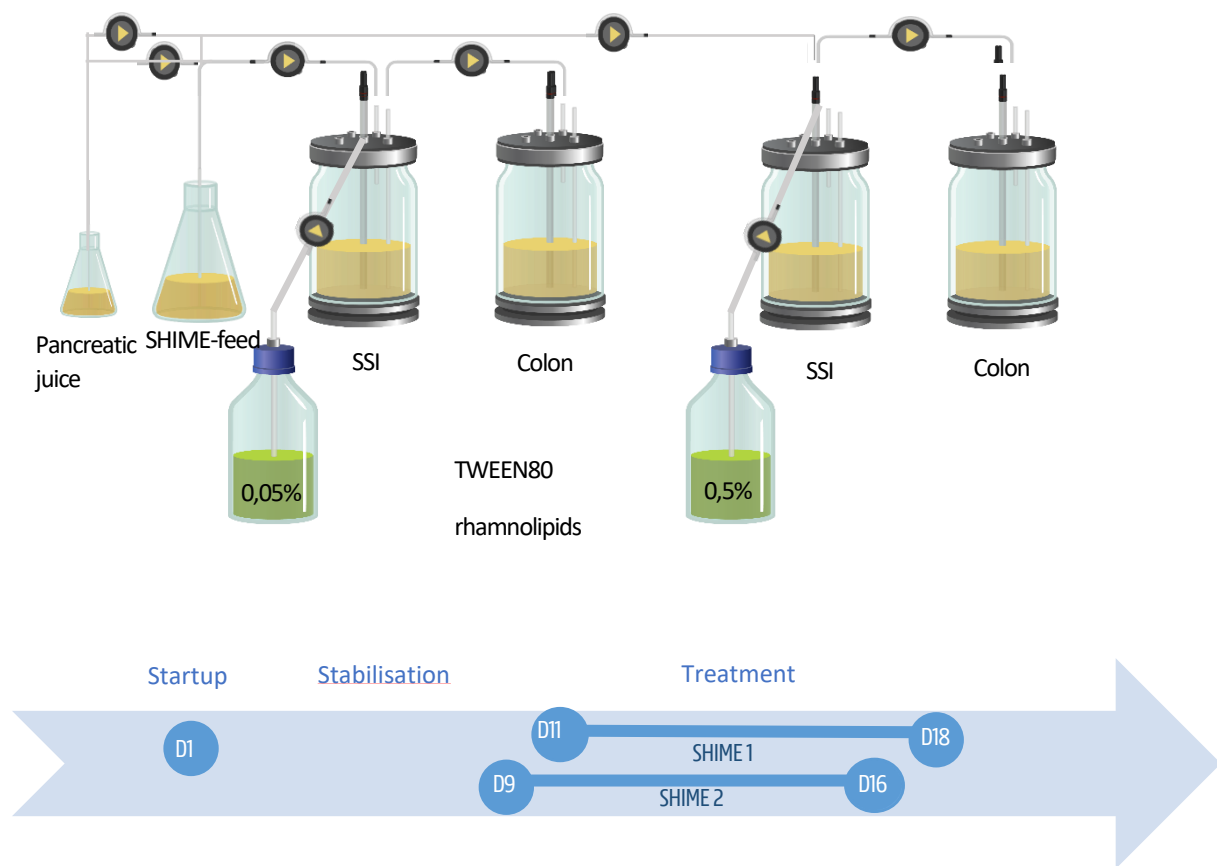


Figure 1: Schematic representation of an experiment with the Simulator of the Human Intestinal Microbial Ecosystem (SHIME) investigating the impact of 0,05 m% and 0,5 % TWEEN80 and rhamnolipids on the composition and functionality of the gut microbiota from 2 human faecal donors.

Table 1: Chemical composition of nutritional SHIME-feed

Component	Concentration (g/L)
Arabinogalactan	1,2 g/L
Pectin	2
Xylan	0,5
Glucose	0,4
Yeast extract	3
Special Pepton	1
Mucin	2
Cystein-HCl	0,5
Starch	4

Table 2: Time table of pumping action between different SHIME-compartments.

Feed => Stomach/small intestine	Pancreatic juice => Stomach/small intestine	Emulsifier => Stomach/small intestine	Stomach/small intestine => Colon	Colon => Waste
9u -> 9u30	10u -> 9u15	9u50 -> 10u	12u30 -> 14u30	13u30 -> 15u30
17u -> 17u30	18u -> 17u15	18u50 -> 19u	20u30 -> 22u30	21u30 -> 23u30
1 -> 1u30	2 -> 2u15	2u50 -> 3u	4u30 -> 6u30	5u30 -> 7u30

