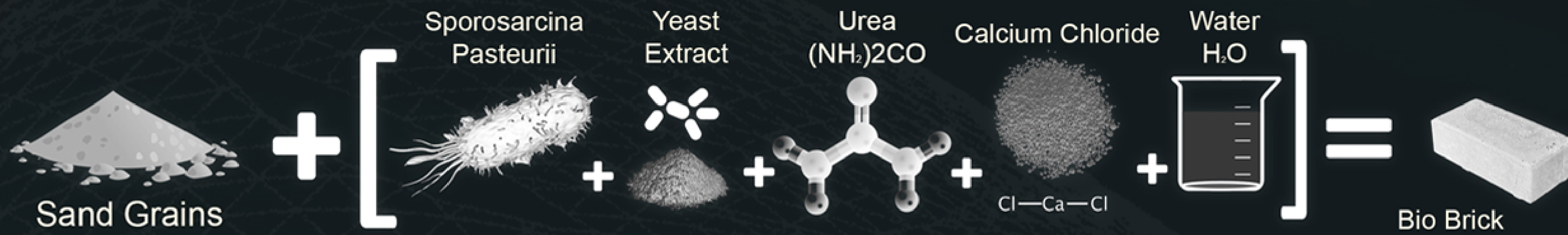


The main concept in this project was to use the organic forms of the dunes. Since there should be some kind of discipline in every man made product it was decided to use the pattern of the sign chart. The form starts from a low level dune and rises up to a high one, so that it can be noticed from the distance. In order to provide desired shadows in the hot and sunny climate of Abu Dhabi we mirrored the whole pattern to create the trenches needed for the algae ponds.



Benefits of injecting Bacillus Pasteurii to the sand dunes:  
 1) Binding the grains and adding roughness to the sand dunes.  
 2) Providing a physical support structure and creating relatively cool public spaces inside the sand dunes.  
 3) Creating spaces with shade inside the sand dunes that are suitable for placing algae ponds.



Algae, consume CO<sub>2</sub> from the atmosphere and release oxygen. Additionally, they can use carbon dioxide produced by Bacillus Pasteurii. Some of these microorganisms produce oils in order to store energy that can be used as fuel for our cars and even as an alternative protein source for us. Also, considering the site's proximity to the sea, we can use seawater, which is suitable for algae growth, and also save on shipping costs at the same time.

