



Harnessing Vertical Farming

Vajinath Lad, manager, creative cosmetics technologies, International Cosmetics Science Centre A/S

We at International Cosmetics Science Centre A/S (ICSC) always take a holistic approach when we design new products, formulations or production methods. We offer all products which are natural, derived from plants, and focus on providing the highest quality natural products to our consumers so they can stay healthy and beautiful, while we keep nature healthy and beautiful as well.

Vertical farming is part of our Greenceuticals portfolio, where we strive to produce pure and high-quality natural products in sustainable ways. The plants are grown in a closed

system which controls nutrient intake, air and root temperature, humidity, pH, day/night lighting cycle, energy output and even the concentration of CO₂ in the air.

All affect plant growth in interconnected and interacting ways. Hydroponic systems use 85-95% less water than conventional methods and reduces nutrient use, too. Efficiently established and managed, vertical farms do not need pesticides or herbicides and products produced are 100% free from herbicides, pesticides, GMOs, heavy metals or other toxins.

Most importantly, vertical farms do not waste space. We use solar energy to power our vertical farming. Our vertical farming set up is ISO 9001: 2015 certified.

Actives produced from vertical farming are highly enriched with chlorophyll, carotenoids and phyto actives. Currently we offer Cosmosil HB (holy basil) and Cosmosil CAL (calendula) oil and butter from vertical farming for sustainable cosmetics formulations. These are further stabilized with our unique internal stabilization technology for longer shelf life.