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From the stoichiometry, production of 27.3 gmol of cells requires 27.3/1.65 = 16.5 gmol of hexadecane. Converting to mass terms using the molecular weight of hexadecane, 16.5 gmol = 16.5 gmol × 226.4 g gmol – 1 = 3736 g = 3.74 kg of hexadecane.

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