

A maximal Cohen-Macaulay module M over a Noetherian local ring (R, \mathfrak{m}, k) is Ulrich if $e(M) = \mu(M)$, where $e(M)$ is the Hilbert-Samuel multiplicity of M and $\mu(M)$ is the minimal number of generators of M . When M is a maximal Cohen-Macaulay module and \mathfrak{m} has a minimal reduction I generated by a system of parameters, M is Ulrich if and only if $\mathfrak{m}M = IM$.