

# **EFFECT OF SOME PLANT REGULATORS ON THE PHYSICAL AND CHEMICAL CHARACTERISTICS OF FRUITS AND TOMATO LEAVES.**

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## **ABSTRACT**

This investigation was conducted during 2008-2009 ,in science department ,college of basic education ,Diyala university .In this study was used 3-Indoleacetic acid (IAA) , Naphthalene acetic acid (NAA), Gibberellic acid (GA3), Cytokinin (CK), Abscisic acid (ABA), Maleic hydrazed (MH) ,2- Vhloroethyl trimethyl ammonium chloride(CCC), at(100-200 ppm) on tomato plant, *lycopersieon esaulentum*. CCC,IAA,NAAA,ABA and CK at (200 ppm) have increased fruit diameter ,Whereas GA3 at (200 ppm) increased length of fruit significantly compared with control . All treatment reduced phosphorus percentage in fruit ,ABA,NAA, MH, at (100-200 ppm) have reduced phosphorus percentage in leave significantly , ABA at (200 ppm)and MH at (100-200 ppm) have been reduced the percentage of protein significantly in the leaves. CCC, MH and CK at (100-200 ppm) have increased total chlorophyll content in tomato leaves .