P.Cr. Sens II (CC7), Vnil-2, Sulomik 2.3 Metabolism of Carloohyabetis: Chycogei By Dr. Sumita Kuna: Shan A.P. and Head P.G. Dept. of Zwlogy Mahereje college, the Introduction: - Crycolycis is the first step of celluler Respiration. 9t is Comming pathway of ATP Syntheis by enzymetic oscidations of hereose, mainly glucose, level to formations of pyrmate (is the prece of oragges (aerobic) en abecere (avaerobic) of onyges. During this, a rede-carbon mono leccheside molecule is degradal to two wol - by of their Carbon pymvete : In Aendric glycolyeis fymets is further origined to Cor and water through Kreb's Cycle & reepiratory chain for the synthesis of a lorge amount of ATP, wheres anaerobic glycolyeis, pymvete gets reduced to dectete or is decarbo - leter ito a cetal dehyde met finell to ethenol. Anaesobic glycoljus occuring in yoursel after betet accumulates during inteness mus culor activity er Excercier or mining ley atheleter who ATP Re requisement of much sice

Dehydrogenes Glyceralde hyple + 3-Poy NAD NADH. 1,3 diphosphoglyciste 7. Transfer of energy-rich pay from 1.3 - biphosphoglycerate to ASP. . This is a phosphoryleting reaction, in which 1, 3 diphosphogly well phosphosylete to from 3 phospho -gly osete and ATP. phosphogly ceste 3 - Phosphogly circle = 2 phospho 8. Convoisin of 3-phosphogly crete to 2-phosphogly cerete -> In this step, 3 phosphogly wat isomesses to form 2 prosphogly - certe under the action of Eszyme phosphoglyceste mutace. 3 phosphogly certe Phosphogly cent 2 Phosphogly agele Dehydration of 2-phosphogly center A molecule of wester is remove lay enjyme Enolar, forming of mg+2 in.

2 - Phosphoenol Pynuvate Enolace Mg+2. Phosphoenol 10. Travefer of energy sich Poy forms phosphoenolpymont to ADP -This is virtuelly the last engymetric step is glycolying where energy elichted file Phosphoenol pyouvate to ASP my enzyme Pyruvete Kinase in the mg+2. Pyravate kirace Phosphoenol Pyravete mg 2 Pyravete Regulation of Grlycolypis ->
Colycolypis is the most posinitive
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portswey of energy 8 you their joy
System and remains linked to other pathweight of ATP Synthemen of the well energy regarded to maisly the energy regarded men of the However, three ingymes of glycega as Herokinase, phoephofmetilime and Pyruvete Kinner are the mais enzymes, which are allosteric and are regulated by reactant

and products of gly colying and Kreb's Cycle He modernise, in muscles, brings about the formetion of glucoce-6-Poy, which induces allosteric ishibities of its of glucou and glucous - 6- Pay 13 equilibrium PFIL (Phosphofmetokinase) activity is muscle is regulated by relitive concentration of a large no. of . Substances including it rectents and products Pyruvete kinese) also an allostsic Enzyme; is is hibited by high - Consintenting of ATP, Accept Co-A and doing chair, fatty acids; orcidetin of last two provides ATP.