

## Enzymes

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They're the protein catalysts in every organism: ENZYMES!  
Through enzymatic action your metabolism's driven: ENZYMES!  
In staphylococcus, jellyfish, tarantulas and trees,  
They lower activation energy  
Enzymes, in you and me now, ENZYMES!

You got 'em in your cells where they do cellular digestion: ENZYMES!  
You got 'em in your mouth and in your stomach and intestines: ENZYMES!  
The thing an enzyme acts upon is called a substrate.  
They fit like lock and key with complementary shape  
Enzymes, speed up reaction rates: ENZYMES!

An enzyme binds its substrate at its active site: ENZYMES!  
Bound together in a complex where they snuggle so tight: ENZYMES!  
New bonds will form and break due to the active site's chemistry  
Reactants become products, it's the enzyme's specialty,  
Product gets release enzyme repeats its action readily: ENZYMES!

Like any molecule an enzyme's shape defines its function: ENZYMES!  
Environmental change that changes shape leads to malfunction: ENZYMES!  
Every enzyme has a pH where it catalyzes best,  
a pH change will set enzyme activity to rest.  
Enzymes are so sensitive they're easily upset: ENZYMES!

More heat until a certain point increases their efficiency: ENZYMES!  
But too much heat denatures them destroying their activity: ENZYMES!  
That's why a fever running high's a dangerous situation,  
All that heat can alter enzymatic conformation.  
Keep it 98.6 for enzyme optimization: ENZYMES!

Enzymes in saliva will break starch into glucose: ENZYMES!  
If you lack the enzyme lactase then you won't enjoy milk lactose: ENZYMES!  
Tay-sachs, galactosemia and PKU disease,  
All caused by inherited enzyme deficiencies  
ENZYMES, they're what everybody needs: ENZYMES!