

DNA and the genome

DNA is a polymer made up of what units?

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What are the parts of a nucleotide?

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What shape is a DNA molecule?

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What joins the two strands of DNA together?

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Which bases pair together in DNA?

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Define the genome.

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Define a gene.

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Why is detergent used when extracting DNA from fruit?

A sugar and a phosphate group, with one of four different bases attached to the sugar.

Nucleotides.

Complementary base pairs joined by weak hydrogen bonds.

Two strands coiled to form a double helix.

The entire DNA of an organism.

A with T, and C with G.

It breaks down the cell membranes to release the DNA.

A section of a DNA molecule that codes for a specific protein.

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Why is ice-cold ethanol added when extracting DNA?

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Why is the mashed fruit mixture filtered?

To remove solid pieces of cell, leaving the DNA in the filtrate.

DNA is not soluble in it, so it comes out of solution as white, stringy strands.