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The Specifications of Oligonucleotide Synthesizer by

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oligonucleotide synthesizer is a device which promotes oligonucleotide synthesis which is a chemical process involving relatively short particles of nucleic acid in a proper sequence. When you require a well defined sequence in custom made oligonucleotides then this process is the only inexpensive process with rapid access to this. In case of DNA where the enzyme synthesizes it in 5' to 3' direction but in case of oligonucleotide it is just the other way round that is 3' to 5'.

There are a few companies which produce dna synthesizer and oligonucleotide synthesizer but not all of them have the same capability and warranty. The quality of the device will ensure that you will get high quality oligonucleotide or not. It needs to be flexible enough to operate a good variety of DNA and RNA synthesis and if it has the gene synthesis, it will be an added advantage. Custom oligonucleotide synthesis is done in several steps. The first step is de blocking which is followed by base consolidation and capping. Once the capping is done, then oxidation takes place and this process repeats until all the desired bases are added to the oligonucleotide. The device you purchase needs to have all these features so that you do not face any problem in the process.

The features of a good machine are that is should be easy to use and flexible at the same time. The cycle time needs to be fast with low reagent consumption. It is better if it is possible to synthesize both long and short oligos. The system should be reliable and at the same time cost effective. When selecting a provider it is important to see if they offer customer site installation because installing this device requires special training. Ensuring all this will give you the best buying experience.

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For more information on a dna synthesizer, check out the info available online; these will help you learn to find the a oligonucleotide synthesizer!

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