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Product Name :

DNA-RNA Model

Product Code :

SLE/CH/97



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Description :

DNA-RNA Model (Product Code: SLE/CH/97) is a build-it-yourself molecular model kit thatshows how nucleic acids are assembled: sugar and phosphate units form the backbone, colouredbase tubes pair across the middle, and separate pieces stand for the hydrogen bonds betweenbase pairs. Because white uracil tubes are included alongside thymine, the same set can be usedto compare DNA with RNA. Biology, biochemistry and chemistry teachers in schools and colleges use it for lessons on genetics and molecular structure, and students use it for 3D science model kit projects in India. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Base tubes	30 coloured tubes: guanine red, cytosine green, thymine blue, adenine grey, uracil white
Hydrogen-bond pieces	12 white two-prong centres representing the hydrogen bond between base pairs
Sugar units	28 black trigonal atom centres
Phosphate units	25 red two-prong atom centres
Backbone links	50 yellow tubes linking the phosphate groups to the sugar rings
Display	Wooden base with support rod

Typical Use

Students first join black sugar centres and red phosphate centres with yellow tubes to build each backbone, then attach base tubes and connect complementary pairs through the white hydrogen-bond pieces: adenine with thymine and guanine with cytosine. Swapping the blue thymine tubes for white uracil tubes turns a DNA segment into an RNA-style strand, which makes the difference between the two nucleic acids easy to see. The finished model stands on the wooden base and support rod for display during the lesson.

Sort the pieces by colour before class and give each group a colour key so base identity is never confused. Count the parts back into the box afterwards, since small components are easily lost. As a hands-on biology experiment kit for students, it works well for revision, group activities and project displays.

Manufacturer

ScienceLab is the brand name of **Jain Scientific Equipments Private Limited**, based in Ambala, Haryana, India. The company is incorporated under CIN U29309HR2020PTC087597 and manufactures at its licensed factory at 449, HSIIDC Industrial Area, Saha, Ambala (Factory Licence AMB-ONLINE-CHD-J-414). Find out more in our company profile.

Related Laboratory Equipment

Mode

- IA

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