

MEA Laboratory Animal Diets Market Forecast to 2028 - COVID-19 Impact and Regional Analysis - by Diet Type (Standard Diets, Irradiated Diets, and Autoclavable Diets), Animal (Mouse, Cat, Dog, Rabbit, Chicken, and Others), Application (Drug Discovery & Personalized Medicine, Regenerative Medicine, Pathology of Infectious Diseases, Drug Toxicity & Efficacy Testing, and Others), and End User (Pharmaceutical & Biopharmaceutical Companies, Research & Academic Institutes, and Others)

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Report description:

The laboratory animal diets market in MEA is expected to grow from US\$ 137.01 million in 2022 to US\$ 163.53 million by 2028; it is estimated to grow at a CAGR of 3.1% from 2022 to 2028.

Rising Demand for Humanized Mice Models Boost MEA Laboratory Animal Diets Market

Basic research, safety assessment for large molecule therapeutics, simulation of a few human-specific infectious diseases, and efficacy testing of immunotherapy approaches use humanized mice models. Humanized mice models are generally used to study cancer genetics, autoimmune diseases, regenerative medicine, human hematopoiesis, infectious diseases, transplantation, and autoimmunity. They enhance the translational value of preclinical research by enabling researchers to understand disease pathways better. Both mice and human genes and proteins are examined to determine the optimal expression and functionality of the human protein in a mouse environment. Recent mice models also reflect hematopoiesis, natural immunity, neurobiology, and

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molecular signaling pathways that influence disease pathobiology. These mice models also aid studies on human pathobiology, natural disease processes, and therapeutic efficacy across a broad spectrum of human diseases. Overall, humanized mice models offer low-cost, high-throughput studies on infection or degeneration in natural pathogen-host cells and the opportunity to test disease transmission and eradication. Humanized mice models have been xenografted with human cells or engineered to express human genes. These mice are used extensively to elucidate and understand human physiology and the etiology of human-specific infections. These models are used in biomedical research to develop therapeutics due to their numerous advantages such as small size, short reproductive cycle, ease of handling, and increased genomic similarity to humans. They are crucial in preclinical research studies because they imitate the symptoms of several human-specific diseases and can be used to study the efficacy and safety of immunotherapy approaches.

In addition, humanized mice models have played an important role in designing and developing vaccines and antibody-based therapies for COVID-19. The models, developed after the onset of the COVID-19 outbreak, could further help provide a more profound and better understanding of the infection and effectiveness of antiviral therapeutics and support the development of efficient drugs and therapies to treat the disease. Hence, humanized mice models will continue to be widely used in the coming years. Diet plays an important role in the immune response given by humans to a particular type of disease. Therefore, it is important to take care of the diet provided to the humanized mice model. Hence, humanized mice models are also given a diet similar to the human diet. Thus, the growing demand for humanized mice models will create an opportunity for the growth of the laboratory animal diet market during the forecast period.

Market Overview

The MEA Laboratory Animal Diet market is segmented into Saudi Arabia, the UAE, South Africa, and the Rest of MEA. Animals are commonly used for scientific purposes in the region. The number of animals used in research has increased with the advancement of research and development in medical technology. Every year, millions of experimental animals are used in South Arabia for the purpose of research. Various animals such as mice, rats, hamsters, rabbits, fishes (examples-zebra fish and trout), birds (mainly chicken), guinea pigs, amphibians (xenopus frogs), primates, dogs, cats etc. are being used in research for a long time. Moreover, they are used to obtain products such as vaccines, antibiotics etc. which are used in treatments as well as diagnostics.

MEA Laboratory Animal Diets Market Revenue and Forecast to 2028 (US\$ Million)

MEA Laboratory Animal Diets Market Segmentation

The MEA laboratory animal diets market is segmented into diet type, animal, application, end user, and country.

Based on diet type, the market is segmented into standard diets, irradiated diets, and autoclavable diets. The standard diets segment registered the largest market share in 2022.

Based on animal, the MEA laboratory animal diets market is segmented into mouse, cat, dog, rabbit, chicken, and others. The mouse segment registered the largest market share in 2022.

Based on application, the MEA laboratory animal diets market is segmented into drug discovery and personalized medicines, regenerative medicines, pathology of infectious disease, drug toxicity and efficacy testing, and others. The drug discovery and personalized medicine segment registered the largest market share in 2022.

Based on end user, the MEA laboratory animal diets market is segmented into pharmaceutical & biopharmaceutical companies, research & academic institutes, and others. The pharmaceutical & biopharmaceutical companies segment registered the largest market share in 2022.

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Based on country, the MEA laboratory animal diets market is segmented into Saudi Arabia, South Africa, the UAE, and the Rest of MEA. Saudi Arabia dominated the market in 2022.

Altromin Spezialfutter GmbH & Co. KG, Bio-Serv, Envigo, Krishna Valley Agrotech LLP, LabDiet, Research Diets Inc., SAFE, Special Diet Services, and Specialty Feeds are the leading companies operating in the laboratory animal diets market in the MEA.

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