In-Vitro Toxicology/Toxicity Testing Market is estimated to be US$ 55.83 billion by 2030 with a CAGR of 10.5% during the forecast period.

The term “in **VITRO**” refers to a method for testing dangerous compounds on a section of an organism that has been isolated. It is a cost-effective & time saving method of determining toxicity. Rapid advancements in biomedical sciences are expected to lead to the development of newer & more advanced in-vitro test methodologies for hazard characterization. In-vitro toxicology is the scientific analysis of effects of toxic chemicals on cultured bacteria or mammalian cells. Toxicity testing plays a key role in regulatory decisions of government to protect public from toxicity of chemicals. There is a need to identify and assess the toxicity and hazardous property of the chemical substance.

COVID-19 Impact:

Many enterprises in vitro toxicity testing industry were compelled to temporarily halt activities due to COVID-19 pandemic, to ensure compliance with new government rules aimed at preventing the disease’s spread.

This halt in operations has a direct impact in vitro testing markets revenue flow. Due to scarcity of raw materials during the lockdown, the production of industrial products came to halt. Enterprises in this industry did not get fresh consignments. As a result, the in vitro toxicity testing market has been negatively impacted by the suspension of industrial activity & lockdowns for several months.

The report " **Global In-Vitro Toxicology/Toxicity Testing Market, By Product and Service (Consumables, Assays (Bacterial Toxicity Assays, Enzyme Toxicity Assays, Cell-based Elisa and Western Blots, Receptor-binding Assays, Tissue Culture Assays, and Other Assays), Equipment, Software, and Services), By Method (Cellular Assays, Biochemical Assays, In Silico Models, and Ex Vivo Models), By Toxicity Endpoint (ADME, Skin Irritation, Corrosion and Sensitization, Genotoxicity Testing, Cytotoxicity Testing, Ocular Toxicity, Organ Toxicity, Phototoxicity Testing, Dermal Toxicity, and Other Toxicity Endpoints & Tests), By Technology (Cell Culture Technologies, High-throughput Technologies, Toxicogenomics), By Industry (Pharmaceuticals and Biopharmaceuticals, Cosmetic and Household Products, Food, and Chemicals), and By Region (North America, Europe, Asia Pacific, Latin America, and Middle East & Africa) - Trends, Analysis and Forecast till 2030”.**

Key Highlights:

- **On August 01, 2022 LifeNet Health LifeSciences launches a new, human relevant Cell-Based Assay Service for drug and compound discovery.**
- **On May 2022, Labcorp a leading global life sciences company, and AtlantiCare, the largest health care organization in southern New Jersey, today announced that they have closed a transaction to expand their long-term strategic relationship. Labcorp will acquire select assets**

from AtlantiCare's clinical outreach business, which serves the AtlantiCare Physician Group and Affiliated Physicians and their patients across southern New Jersey.

Analyst View:

The opposition to animal testing, technical developments, and rising R&D spending to identify toxicity at an early stage during drug development are the main factors propelling the growth of the global in-vitro toxicity testing market. The global in-vitro toxicology testing market is expanding as a result of factors including ethical concerns and pressure from animal activist groups regarding the use of animals for testing, a ban on animal testing on cosmetic products, regulatory body support for the approval of in vitro tests, low costs related to in vitro toxicology testing, and improvements in in vitro methodologies.

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Key Market Insights from the report:

Global In-vivo toxicology/Toxicity Testing Market accounted for US$ 22.7 billion in 2020 and is estimated to be US$ 55.83 billion by 2030 and is anticipated to register a CAGR of 10.5%. The Global In-vivo toxicology/Toxicity Testing Market is segmented based on product and service, method, toxicity endpoint, technology, industry and region.

- Based on Products & services, Global In-Vitro Toxicology/Toxicity Testing Market Segmented by Consumables, Assays, Equipment, Software & Services.
- Based on Method, Global In-Vitro Toxicology/Toxicity Testing Market Segmented by Cellular assay, Biochemical assay, In Silico Models & Ex Vivo models.
- Based on Toxicity End Point, Global In-Vitro Toxicology/Toxicity Testing Market Segmented by ADME, Skin Irritation, Corrosion & Sensitization, Genotoxicity Testing, Cytotoxicity Testing, Ocular Toxicity, Organ Toxicity, Phototoxicity Testing, Dermal Toxicity.
- Based on Technology, Global In-Vitro Toxicology/Toxicity Testing Market Segmented by Cell Culture Technologies, High-throughput Technologies & Toxicogenomics.
- Based on Industry, Global In-Vitro Toxicology/Toxicity Testing Market Segmented by Pharmaceuticals & Biopharmaceuticals, Cosmetic & Household Products, Food & Chemicals.
- Based on Region Global In-Vitro Toxicology/Toxicity Testing Market Segmented by North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Competitive Landscape & their strategies of Global In-Vitro Toxicology/Toxicity Testing Market:

The prominent players operating in the Global In-Vitro Toxicology/Toxicity Testing Market are Thermo Fisher Scientific, Covance, Bio-Rad Laboratories, GE Healthcare, Eurofins Scientific, Merck KgaA, Charles River Laboratories International, Catalent, Cyprotex, SGS S.A.

The market provides detailed information regarding the industrial base, productivity, strengths, manufacturers, and recent trends which will help companies enlarge the businesses and promote financial growth. Furthermore, the report exhibits dynamic factors including segments, sub-segments, regional marketplaces, competition, dominant key players, and market forecasts. In addition, the market includes recent collaborations, mergers, acquisitions, and partnerships along with regulatory frameworks across different regions impacting the market trajectory.

Recent technological advances and innovations influencing the global market are included in the report.

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