

# Global Reverse Transcriptase Market by Manufacturers, Regions, Type and Application, Forecast to 2023

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## Abstracts

Normally, DNA is transcribed, or copied, to RNA and then translated to protein. Reverse transcriptase copies RNA back to DNA. Think of it as a car moving down a one-way street. Normally traffic only moves in one direction. But then, someone from out of town is driving the opposite way! Reverse transcriptase drives the opposite way in molecular processes in cells, converting RNA back to DNA.

Although it is very different from the normal process, reverse transcriptase is an important enzyme. It is needed for function in viruses, eukaryotes and prokaryotes. Reverse transcriptase enzymes in cells are involved in genetic diversity and in the process of aging in eukaryotic cells. In viruses, reverse transcriptase allows the virus to insert its DNA to the host cell's DNA, forcing the cell to make more viruses. This is good for the virus but bad for the host.

### Scope of the Report:

This report focuses on the Reverse Transcriptase in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

In the last several years, global market of Reverse Transcriptase developed smoothly, with an average growth rate of 4.6 %. In 2016, global revenue of Reverse Transcriptase is nearly 260 million USD; the actual production is about 570 liter.

The classification of Reverse Transcriptase includes MMLV Reverse Transcriptase and AMV Reverse Transcriptase; Moloney Murine Leukemia Virus (MMLV) Reverse Transcriptase is an RNA-directed DNA polymerase. This enzyme can synthesize a complementary DNA strand initiating from a primer using either RNA (cDNA synthesis)

or single-stranded DNA as a template. And the sales proportion of MMLV Reverse Transcriptase in 2016 is about 80.9%.

Reverse Transcriptase can be used for PCR, Sequencing and Cloning, PCR was the largest application segment in 2016, and the proportion is about 59.4%. The application used in cloning with the fastest growth rate.

The worldwide market for Reverse Transcriptase is expected to grow at a CAGR of roughly 3.7% over the next five years, will reach 330 million US\$ in 2023, from 270 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Thermo Fisher

Promega

Roche

Agilent

Takara Bio

Qiagen

Bio-Rad

Fapon Biotech

Toyobo

Vazyme

New England Biolabs

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

MMLV Reverse Transcriptase

AMV Reverse Transcriptase

Market Segment by Applications, can be divided into

PCR

Sequencing

Cloning

There are 15 Chapters to deeply display the global Reverse Transcriptase market.

Chapter 1, to describe Reverse Transcriptase Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Reverse Transcriptase, with sales, revenue, and price of Reverse Transcriptase, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Reverse Transcriptase, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Reverse Transcriptase market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Reverse Transcriptase sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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