

# Global In-vitro Fertilization Microscopes Market Size study, by Type (Upright Microscopes, Inverted Microscopes, Stereo Microscopes, Embryo Microscope) by End User (Clinical, Academic Research) and Regional Forecasts 2022-2032

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## Abstracts

Global In-vitro Fertilization Microscopes Market is valued approximately USD 115.31 Million in 2023 and is anticipated to grow with a healthy growth rate of more than 9.4% over the forecast period 2024-2032. In-vitro fertilization microscopes play a crucial role in assisted reproductive technology by providing high-resolution imaging and precise manipulation capabilities essential for successful fertilization procedures. These specialized microscopes are designed to facilitate the observation and manipulation of gametes (sperm and eggs) during the various stages of the IVF process. They typically feature advanced optics, including high-magnification objectives and specialized illumination techniques, to enable clear visualization of sperm motility, egg morphology, and embryo development. IVF microscopes are incorporating advanced imaging technologies such as confocal microscopy, polarized light microscopy, and time-lapse imaging to enhance the visualization of gametes and embryos. These technologies provide greater clarity, depth, and detail, enabling embryologists to assess embryo quality more accurately.

The technology utilised in IVF, including microscopes and related equipment, has advanced significantly. To enhance the procedure, researchers have been concentrating on creating advancements in AI, embryo evaluation, and sperm selection. For example, Weill Cornell Medicine researchers revealed in December 2022 the creation of STORK-A, an artificial intelligence algorithm that can identify if an embryo created in vitro has an aberrant or normal number of chromosomes. Utilising microscope images of embryos taken five days after fertilisation, a quality score given to

the embryo by clinic personnel, the mother's age, and other information commonly obtained throughout the IVF procedure, STORK-A has an accuracy rate of roughly 70%. This non-invasive technique may greatly increase the success rates of IVF treatments. Furthermore, Global In-vitro Fertilization Microscopes market is driven by Increasing Incidence of Infertility and Supportive regulatory policies and initiatives aimed at promoting access to fertility treatments. However, high cost of microscopes and stringent product approval regulatory requirements will stifle market growth between 2022 and 2032.

The key regions considered for the global In-vitro Fertilization Microscopes market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Europe was the largest regional market. The growth of this region is primarily driven by beneficial regulatory adjustments and advancements in technology. The widespread acceptance of time-lapse technology, coupled with clinic-designed algorithms, has significantly expanded. Furthermore, the emergence of microscopes capable of fulfilling all imaging needs within a single embryo chamber has led to cost and space savings for the procedure. Additionally, recent legal revisions, such as granting IVF access to the LGBTQ+ community, have had a favorable impact on the market. The market in Asia Pacific, on the other hand, is expected to develop at the fastest rate over the forecast period.

Major market player included in this report are:

Labomed Europe B.V.  
Linkam Scientific Instruments  
Nikon Corporation  
Olympus Corporation  
Euromex Microscopen B.V.  
Leica Microsystems  
Meiji Techno.  
ZEISS International  
NARISHIGE Group.  
Hamilton Thorne, Inc.

The detailed segments and sub-segment of the market are explained below:

By Type

Upright Microscopes  
Inverted Microscopes  
Stereo Microscopes

## Embryo Microscope

### By End User

Clinical

Academic Research

### By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

### Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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