

Hemagglutinin 5 Market Research: Global Status & Forecast by Geography, Type & Application (2017-2027)

<https://marketpublishers.com/r/HC5C521EEC2EN.html>

Date: September 2021

Pages: 52

Price: US\$ 2,280.00 (Single User License)

ID: HC5C521EEC2EN

Abstracts

According to 99Strategy, the Global Hemagglutinin 5 Market is estimated to reach xxx million USD in 2021 and projected to grow at the CAGR of xx% during the 2022-2027. The report analyses the global Hemagglutinin 5 market, the market size and growth, as well as the major market participants.

The analysis includes market size, upstream situation, market segmentation, market segmentation, price & cost and industry environment. In addition, the report outlines the factors driving industry growth and the description of market channels. The report begins from overview of industrial chain structure, and describes the upstream. Besides, the report analyses market size and forecast in different geographies, type and end-use segment, in addition, the report introduces market competition overview among the major companies and companies profiles, besides, market price and channel features are covered in the report.

Key Regions

Asia Pacific

North America

Europe

South America

Middle East & Africa

Key Companies

Altravax, Inc.

Ilyang Pharmaceutical Co., Ltd

Inovio Pharmaceuticals, Inc.

NewLink Genetics Corporation

Vaxine Pty Ltd

Key Product Type

VGX-3400X

IY-7640

INO-3510

DPC-005

Others

Market by Application

Clinic

Hospital

House Use

Main Aspects covered in the Report

Overview of the Hemagglutinin 5 market including production, consumption, status & forecast and market growth

2017-2021 historical data and 2022-2027 market forecast

Geographical analysis including major countries

Overview the product type market including development

Overview the end-user market including development

Contents

1 INDUSTRIAL CHAIN OVERVIEW

1.1 Hemagglutinin 5 Industry

1.1.1 Overview

Figure Hemagglutinin 5 Picture List

1.1.2 Characteristics of Hemagglutinin

1.2 Upstream

1.2.1 Major Materials

1.2.2 Manufacturing Overview

1.3 Product List By Type

1.3.1 VGX-3400X

1.3.2 IY-7640

1.3.3 INO-3510

1.3.4 DPC-005

1.3.5 Others

1.4 End-Use List

1.4.1 Demand in Clinic

1.4.2 Demand in Hospital

1.4.3 Demand in House Use

1.5 Global Market Overview

1.5.1 Global Market Size and Forecast, 2017-2027

Figure Global Market Size and Forecast with Growth Rate, 2017-2027

1.5.2 Global Market Size and Forecast by Geography with CAGR, 2017-2027

Table Global Market Size and Forecast by Geography with Growth Rate, 2017-2027

1.5.3 Global Market Size and Forecast by Product Type with CAGR, 2017-2027

Table Global Market Size and Forecast by Type with Growth Rate, 2017-2027

1.5.4 Global Market Size and Forecast by End-Use with CAGR, 2017-2027

Table Global Market Size and Forecast by End-Use with Growth Rate, 2017-2027

2 GLOBAL PRODUCTION & CONSUMPTION BY GEOGRAPHY

2.1 Global Production & Consumption

2.1.1 Global Production

Figure Global Production Volume Status and Growth Rate, 2017-2021, in Volume

Table Global Production Volume Status and Growth Rate by Geography, 2017-2021, in Volume

Figure Global Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table Global Production Amount Status and Growth Rate by Geography, 2017-2021, in Million USD

2.1.2 Global Consumption

Figure Global Market Volume and Growth Rate, 2017-2021, in Volume

Table Global Market Volume and Growth Rate by Geography, 2017-2021, in Volume

Figure Global Market Amount and Growth Rate, 2017-2021, in Million USD

Table Global Market Amount and Growth Rate by Geography, 2017-2021, in Million USD

2.2 Geographic Production & Consumption

2.2.1 Production

2.2.1.1 Asia-Pacific

Figure Asia-Pacific Production Volume Status and Growth Rate, 2017-2021, in Volume

Table Asia-Pacific Production Volume Status and Growth Rate by Region, 2017-2021, in Volume

Figure Asia-Pacific Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table Asia-Pacific Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

2.2.1.2 North America

Figure North America Production Volume Status and Growth Rate, 2017-2021, in Volume

Table North America Production Volume Status and Growth Rate by Region, 2017-2021, in Volume

Figure North America Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table North America Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

2.2.1.3 South America

Figure South America Production Volume Status and Growth Rate, 2017-2021, in Volume

Table South America Production Volume Status and Growth Rate by Region, 2017-2021, in Volume

Figure South America Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table South America Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

2.2.1.4 Europe

Figure Europe Production Volume Status and Growth Rate, 2017-2021, in Volume

Table Europe Production Volume Status and Growth Rate by Region, 2017-2021, in

Volume

Figure Europe Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table Europe Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

2.2.1.5 Middle East & Africa

Figure Middle East & Africa Production Volume Status and Growth Rate, 2017-2021, in Volume

Table Middle East & Africa Production Volume Status and Growth Rate by Region, 2017-2021, in Volume

Figure Middle East & Africa Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table Middle East & Africa Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

2.2.2 Consumption

2.2.2.1 Asia-Pacific

Figure Asia-Pacific Market Volume and Growth Rate, 2017-2021, in Volume

Table Asia-Pacific Market Volume and Growth Rate by Region, 2017-2021, in Volume

Figure Asia-Pacific Market Amount and Growth Rate, 2017-2021, in Million USD

Table Asia-Pacific Market Amount and Growth Rate by Region, 2017-2021, in Million USD

2.2.2.2 North America

Figure North America Market Volume and Growth Rate, 2017-2021, in Volume

Table North America Market Volume and Growth Rate by Region, 2017-2021, in Volume

Figure North America Market Amount and Growth Rate, 2017-2021, in Million USD

Table North America Market Amount and Growth Rate by Region, 2017-2021, in Million USD

2.2.2.3 South America

Figure South America Market Volume and Growth Rate, 2017-2021, in Volume

Table South America Market Volume and Growth Rate by Region, 2017-2021, in Volume

Figure South America Market Amount and Growth Rate, 2017-2021, in Million USD

Table South America Market Amount and Growth Rate by Region, 2017-2021, in Million USD

2.2.2.4 Europe

Figure Europe Market Volume and Growth Rate, 2017-2021, in Volume

Table Europe Market Volume and Growth Rate by Region, 2017-2021, in Volume

Figure Europe Market Amount and Growth Rate, 2017-2021, in Million USD

Table Europe Market Amount and Growth Rate by Region, 2017-2021, in Million USD

2.2.2.5 Middle East & Africa

Figure Middle East & Africa Market Volume and Growth Rate, 2017-2021, in Volume
Table Middle East & Africa Market Volume and Growth Rate by Region, 2017-2021, in Volume

Figure Middle East & Africa Market Amount and Growth Rate, 2017-2021, in Million USD

Table Middle East & Africa Market Amount and Growth Rate by Region, 2017-2021, in Million USD

3 MAJOR MANUFACTURERS INTRODUCTION

3.1 Manufacturers Overview

Table Major Manufacturers Headquarters and Contact Information

Table Major Manufacturers Capacity List in 2021

3.2 Manufacturers List

3.2.1 Altravax, Inc. Overview

Table Altravax, Inc. Overview List

3.2.1.1 Product Specifications

3.2.1.2 Business Data (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Margin)

Table Hemagglutinin 5 Business Operation of Altravax, Inc. (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Gross Margin)

3.2.1.3 Recent Developments

3.2.1.4 Future Strategic Planning

3.2.2 Ilyang Pharmaceutical Co., Ltd Overview

Table Ilyang Pharmaceutical Co., Ltd Overview List

3.2.2.1 Product Specifications

3.2.2.2 Business Data (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Margin)

Table Hemagglutinin 5 Business Operation of Ilyang Pharmaceutical Co., Ltd (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Gross Margin)

3.2.2.3 Recent Developments

3.2.2.4 Future Strategic Planning

3.2.3 Inovio Pharmaceuticals, Inc. Overview

Table Inovio Pharmaceuticals, Inc. Overview List

3.2.3.1 Product Specifications

3.2.3.2 Business Data (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Margin)

Table Hemagglutinin 5 Business Operation of Inovio Pharmaceuticals, Inc. (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Gross Margin)

3.2.3.3 Recent Developments

3.2.3.4 Future Strategic Planning

3.2.4 NewLink Genetics Corporation Overview

Table NewLink Genetics Corporation Overview List

3.2.4.1 Product Specifications

3.2.4.2 Business Data (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Margin)

Table Hemagglutinin 5 Business Operation of NewLink Genetics Corporation (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Gross Margin)

3.2.4.3 Recent Developments

3.2.4.4 Future Strategic Planning

3.2.5 Vaxine Pty Ltd Overview

Table Vaxine Pty Ltd Overview List

3.2.5.1 Product Specifications

3.2.5.2 Business Data (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Margin)

Table Hemagglutinin 5 Business Operation of Vaxine Pty Ltd (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Gross Margin)

3.2.5.3 Recent Developments

3.2.5.4 Future Strategic Planning

4 MARKET COMPETITION PATTERN

4.1 Market Size and Sketch

Figure Global Market Size and Growth Rate, 2017-2021, in Volume

Figure Global Market Size and Growth Rate, 2017-2021, in Million USD

Figure Global Competition Sketch Overview

4.2 Company Market Share

4.2.1 Global Production by Major Manufacturers

Table Global Production Volume List by Manufacturers, 2017-2021, in Volume

Table Global Production Volume Share List by Manufacturers, 2017-2021, in Volume

Figure Global Production Volume Share by Manufacturers in 2021, in Volume

Table Global Production Amount List by Manufacturers, 2017-2021, in Million USD

Table Global Production Amount Share List by Manufacturers, 2017-2021, in Million USD

Figure Global Production Amount Share by Manufacturers in 2021, in Million USD

- 4.2.2 Market Concentration Analysis
- 4.3 Market News and Trend
 - 4.3.1 Merger & Acquisition
 - 4.3.2 New Product Launch

5 PRODUCT TYPE SEGMENT

5.1 Global Overview by Product Type Segment

Table Global Market Status and Growth Rate by Product Type Segment, 2017-2021, in Million USD

Table Global Market Status and Growth Rate by Product Type Segment 2017-2021, in Volume

5.2 Segment Subdivision by Product Type

5.2.1 Market in VGX-3400X

5.2.1.1 Market Size

Figure Global Market Amount and Growth Rate in VGX-3400X, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in VGX-3400X, 2017-2021, in Volume

5.2.1.2 Situation & Development

5.2.2 Market in IY-7640

5.2.2.1 Market Size

Figure Global Market Amount and Growth Rate in IY-7640, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in IY-7640, 2017-2021, in Volume

5.2.2.2 Situation & Development

5.2.3 Market in INO-3510

5.2.3.1 Market Size

Figure Global Market Amount and Growth Rate in INO-3510, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in INO-3510, 2017-2021, in Volume

5.2.3.2 Situation & Development

5.2.4 Market in DPC-005

5.2.4.1 Market Size

Figure Global Market Amount and Growth Rate in DPC-005, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in DPC-005, 2017-2021, in Volume

5.2.4.2 Situation & Development

5.2.5 Market in Others

5.2.5.1 Market Size

Figure Global Market Amount and Growth Rate in Others, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in Others, 2017-2021, in Volume

5.2.5.2 Situation & Development

6 END-USE SEGMENT

6.1 Global Overview by End-Use Segment

Table Global Market Status and Growth Rate by End-Use Segment, 2017-2021, in Million USD

Table Global Market Status and Growth Rate by End-Use Segment 2017-2021, in Volume

6.2 Segment Subdivision

6.2.1 Market in Clinic

6.2.1.1 Market Size

Figure Global Market Amount and Growth Rate in Clinic, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in Clinic, 2017-2021, in Volume

6.2.1.2 Situation & Development

6.2.2 Market in Hospital

6.2.2.1 Market Size

Figure Global Market Amount and Growth Rate in Hospital, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in Hospital, 2017-2021, in Volume

6.2.2.2 Situation & Development

6.2.3 Market in House Use

6.2.3.1 Market Size

Figure Global Market Amount and Growth Rate in House Use, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in House Use, 2017-2021, in Volume

6.2.3.2 Situation & Development

7 MARKET FORECAST & TREND

7.1 Regional Forecast

Table Global Market Forecast by Region Segment 2022-2027, in Million USD

Table Global Market Forecast by Region Segment 2022-2027, in Volume

7.2 Consumption Forecast

7.2.1 Product Type Forecast

Table Global Market Amount by Product Type Segment 2022-2027, in Million USD

Table Global Market Volume by Product Type Segment 2022-2027, in Volume

7.2.2 End-Use Forecast

Table Global Market Amount by End-Use Segment 2022-2027, in Million USD

Table Global Market Volume by End-Use Segment 2022-2027, in Volume

7.3 Investment Trend

7.4 Consumption Trend

8 PRICE & CHANNEL

8.1 Price and Cost

8.1.1 Price

8.1.2 Cost

Figure Cost Component Ratio

8.2 Channel Segment

9 MARKET DRIVERS & INVESTMENT ENVIRONMENT

9.1 Market Drivers

9.2 Investment Environment

9.3 Impact of Coronavirus on the Hemagglutinin 5 Industry

9.3.1 Impact on Industry Upstream

9.3.2 Impact on Industry Downstream

9.3.3 Impact on Industry Channels

9.3.4 Impact on Industry Competition

9.3.5 Impact on Industry Employment

10 RESEARCH CONCLUSION

List Of Tables

LIST OF TABLES

Table Global Market Size and Forecast by Geography with Growth Rate, 2017-2027

Table Global Market Size and Forecast by Type with Growth Rate, 2017-2027

Table Global Market Size and Forecast by End-Use with Growth Rate, 2017-2027

Table Global Production Volume Status and Growth Rate by Geography, 2017-2021, in Volume

Table Global Production Amount Status and Growth Rate by Geography, 2017-2021, in Million USD

Table Global Market Volume and Growth Rate by Geography, 2017-2021, in Volume

Table Global Market Amount and Growth Rate by Geography, 2017-2021, in Million USD

Table Asia-Pacific Production Volume Status and Growth Rate by Region, 2017-2021, in Volume

Table Asia-Pacific Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

Table North America Production Volume Status and Growth Rate by Region, 2017-2021, in Volume

Table North America Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

Table South America Production Volume Status and Growth Rate by Region, 2017-2021, in Volume

Table South America Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

Table Europe Production Volume Status and Growth Rate by Region, 2017-2021, in Volume

Table Europe Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

Table Middle East & Africa Production Volume Status and Growth Rate by Region, 2017-2021, in Volume

Table Middle East & Africa Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

Table Asia-Pacific Market Volume and Growth Rate by Region, 2017-2021, in Volume

Table Asia-Pacific Market Amount and Growth Rate by Region, 2017-2021, in Million USD

Table North America Market Volume and Growth Rate by Region, 2017-2021, in Volume

Table North America Market Amount and Growth Rate by Region, 2017-2021, in Million USD

USD

Table South America Market Volume and Growth Rate by Region, 2017-2021, in Volume

Table South America Market Amount and Growth Rate by Region, 2017-2021, in Million USD

Table Europe Market Volume and Growth Rate by Region, 2017-2021, in Volume

Table Europe Market Amount and Growth Rate by Region, 2017-2021, in Million USD

Table Middle East & Africa Market Volume and Growth Rate by Region, 2017-2021, in Volume

Table Middle East & Africa Market Amount and Growth Rate by Region, 2017-2021, in Million USD

Table Major Manufacturers Headquarters and Contact Information

Table Major Manufacturers Capacity List in 2021

Table Altravax, Inc. Overview List

Table Hemagglutinin 5 Business Operation of Altravax, Inc. (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Gross Margin)

Table Ilyang Pharmaceutical Co., Ltd Overview List

Table Hemagglutinin 5 Business Operation of Ilyang Pharmaceutical Co., Ltd (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Gross Margin)

Table Inovio Pharmaceuticals, Inc. Overview List

Table Hemagglutinin 5 Business Operation of Inovio Pharmaceuticals, Inc. (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Gross Margin)

Table NewLink Genetics Corporation Overview List

Table Hemagglutinin 5 Business Operation of NewLink Genetics Corporation (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Gross Margin)

Table Vaxine Pty Ltd Overview List

Table Hemagglutinin 5 Business Operation of Vaxine Pty Ltd (Production Volume (Volume), Production Amount (Million USD), Price, Cost, Gross Margin)

Table Global Production Volume List by Manufacturers, 2017-2021, in Volume

Table Global Production Volume Share List by Manufacturers, 2017-2021, in Volume

Table Global Production Amount List by Manufacturers, 2017-2021, in Million USD

Table Global Production Amount Share List by Manufacturers, 2017-2021, in Million USD

Table Global Market Status and Growth Rate by Product Type Segment, 2017-2021, in Million USD

Table Global Market Status and Growth Rate by Product Type Segment 2017-2021, in Volume

Table Global Market Status and Growth Rate by End-Use Segment, 2017-2021, in Million USD

Table Global Market Status and Growth Rate by End-Use Segment 2017-2021, in Volume

Table Global Market Forecast by Region Segment 2022-2027, in Million USD

Table Global Market Forecast by Region Segment 2022-2027, in Volume

Table Global Market Amount by Product Type Segment 2022-2027, in Million USD

Table Global Market Volume by Product Type Segment 2022-2027, in Volume

Table Global Market Amount by End-Use Segment 2022-2027, in Million USD

Table Global Market Volume by End-Use Segment 2022-2027, in Volume

List Of Figures

LIST OF FIGURES

Figure Hemagglutinin 5 Picture List

Figure Global Market Size and Forecast with Growth Rate, 2017-2027

Figure Global Production Volume Status and Growth Rate, 2017-2021, in Volume

Figure Global Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure Global Market Volume and Growth Rate, 2017-2021, in Volume

Figure Global Market Amount and Growth Rate, 2017-2021, in Million USD

Figure Asia-Pacific Production Volume Status and Growth Rate, 2017-2021, in Volume

Figure Asia-Pacific Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure North America Production Volume Status and Growth Rate, 2017-2021, in Volume

Figure North America Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure South America Production Volume Status and Growth Rate, 2017-2021, in Volume

Figure South America Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure Europe Production Volume Status and Growth Rate, 2017-2021, in Volume

Figure Europe Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure Middle East & Africa Production Volume Status and Growth Rate, 2017-2021, in Volume

Figure Middle East & Africa Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure Asia-Pacific Market Volume and Growth Rate, 2017-2021, in Volume

Figure Asia-Pacific Market Amount and Growth Rate, 2017-2021, in Million USD

Figure North America Market Volume and Growth Rate, 2017-2021, in Volume

Figure North America Market Amount and Growth Rate, 2017-2021, in Million USD

Figure South America Market Volume and Growth Rate, 2017-2021, in Volume

Figure South America Market Amount and Growth Rate, 2017-2021, in Million USD

Figure Europe Market Volume and Growth Rate, 2017-2021, in Volume

Figure Europe Market Amount and Growth Rate, 2017-2021, in Million USD

Figure Middle East & Africa Market Volume and Growth Rate, 2017-2021, in Volume

Figure Middle East & Africa Market Amount and Growth Rate, 2017-2021, in Million USD

Figure Global Market Size and Growth Rate, 2017-2021, in Volume

Figure Global Market Size and Growth Rate, 2017-2021, in Million USD

Figure Global Competition Sketch Overview

Figure Global Production Volume Share by Manufacturers in 2021, in Volume

Figure Global Production Amount Share by Manufacturers in 2021, in Million USD

Figure Global Market Amount and Growth Rate in VGX-3400X, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in VGX-3400X, 2017-2021, in Volume

Figure Global Market Amount and Growth Rate in IY-7640, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in IY-7640, 2017-2021, in Volume

Figure Global Market Amount and Growth Rate in INO-3510, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in INO-3510, 2017-2021, in Volume

Figure Global Market Amount and Growth Rate in DPC-005, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in DPC-005, 2017-2021, in Volume

Figure Global Market Amount and Growth Rate in Others, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in Others, 2017-2021, in Volume

Figure Global Market Amount and Growth Rate in Clinic, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in Clinic, 2017-2021, in Volume

Figure Global Market Amount and Growth Rate in Hospital, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in Hospital, 2017-2021, in Volume

Figure Global Market Amount and Growth Rate in House Use, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in House Use, 2017-2021, in Volume

Figure Cost Component Ratio

I would like to order

Product name: Hemagglutinin 5 Market Research: Global Status & Forecast by Geography, Type & Application (2017-2027)

Product link: <https://marketpublishers.com/r/HC5C521EEC2EN.html>

Price: US\$ 2,280.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/HC5C521EEC2EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

