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Partners

# ABOUT AIVD

## ABOUT AIVD

### Company Profile

Shenzhen Aivd Biotechnology Co., LTD., ISO 13485 and ISO 9001 certified, is a China high-tech enterprise specialized in supplying one-stop service such as raw material development, reagent development, system establishment, auxiliary registration, production team building for medical institutions, ICL and IVD companies.

AIVD owns a professional R&D team, quality system and registration team, as well as a well-equipped diagnostic raw material R&D center, diagnostic reagent R&D center, production center and quality center, can provide one-stop professional service for our customers, help our customers to quickly produce products, shorten the product launch cycle, and rapidly obtain the investment return.

## Laboratory Overview

### 01 Laboratory Overview



### 02 In Vitro Diagnostic Raw Materials Production Workshop

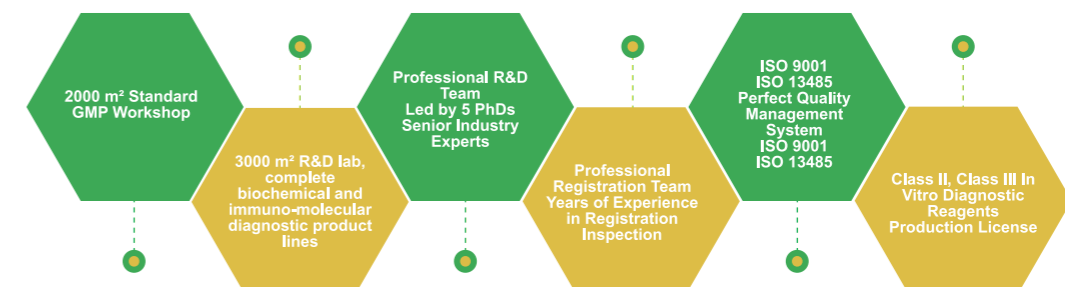
### 03

#### In Vitro Diagnostic Test Kits R&D Lab



### 04 In Vitro Diagnostic Test Kits GMP Workshop

## Company Advantages



# SERVICE ITEMS

## SERVICE ITEMS

### 1.Services List

#### (1) Project Review

##### Patent Review

- Patent Review
- Clinical Review
- Technical Review
- Regulatory Review
- Market Review

#### (2) Custom Development of Proteins - Multiple active protein development platforms and technologies to meet the needs of different diagnostic reagents for core raw materials

##### Recombinant Antigen R&D Platform

- a. E.coli Expression Platform
- b. Pichia Pastoris/Saccharomyces Cerevisiae Expression
- c. Insect Baculovirus Expression
- d. Mammalian Cell Expression

##### Antibody R&D and Preparation Platform

- a. Conventional Antibody Production
- b. Nanobody Production
- c. Phage & Yeast Display Technology
- d. Antibody Affinity Maturation

#### (3) Custom Development of Test Kits - 8 Reagent Development Platforms

##### Custom Developable Test Kits Platforms

- a. Colloidal gold chromatography platform
- b. Fluorescence chromatography platform
- c. Chemiluminescence platform
- d. Enzyme immunoassay platform
- e. Specific protein platform
- f. Biochemical platform
- g. qPCR platform
- h. Thermostatic amplification platform

##### Technical Training

- a. Production training
- b. Process training
- c. Management system training
- d. Workshop design consultation

► (4) Production Verification

Production Verification

- a. Sample, small batch production
- b. Performance testing and validation
- c. Intermediate test
- d. Stability assessment
- e. Process optimization

► (5) Global Quality Management System ► (6) Global Registration

Global Quality Management System

- GMP YY/T0287
- QSR820
- ISO13485
- MDSAP
- CAPA

Service content

- a. Relevant laws and regulations collection and application counseling services
- b. Quality management system establishment training services
- c. Infrastructure, working environment and equipment configuration coaching services
- d. Personnel requirements training services
- e. Quality management system document preparation coaching services
- f. Quality management system operation diagnosis and counseling services
- g. Registered quality management system verification simulation and rectification counseling services, etc.

Global Registration

- NMPA
- FDA
- CE
- MHLW

Service content

- a. Classification definition application
- b. Innovative product application
- c. Registration scheme design
- d. Technical requirements preparation
- e. Product testing agent
- f. Research data preparation
- g. Format document arrangement
- h. Technical review communication

► (7) Clinical Trials

Clinical Trials

- a. Clinical protocol design
- b. Ethical data preparation
- c. Experimental data management
- d. Medical report preparation
- e. Clinical evaluation/monitoring

► (8) Supply Chain Management and Mass Production

Supply Chain Management and Mass Production

- a. Global sourcing
- b. Supplier recommendation
- c. Diagnostic raw materials production
- d. Diagnostic test kits production
- e. OEM production
- f. Scale up production
- g. Warehouse management
- h. Cold chain distribution

► (9) Circulation Sales

Circulation Sales

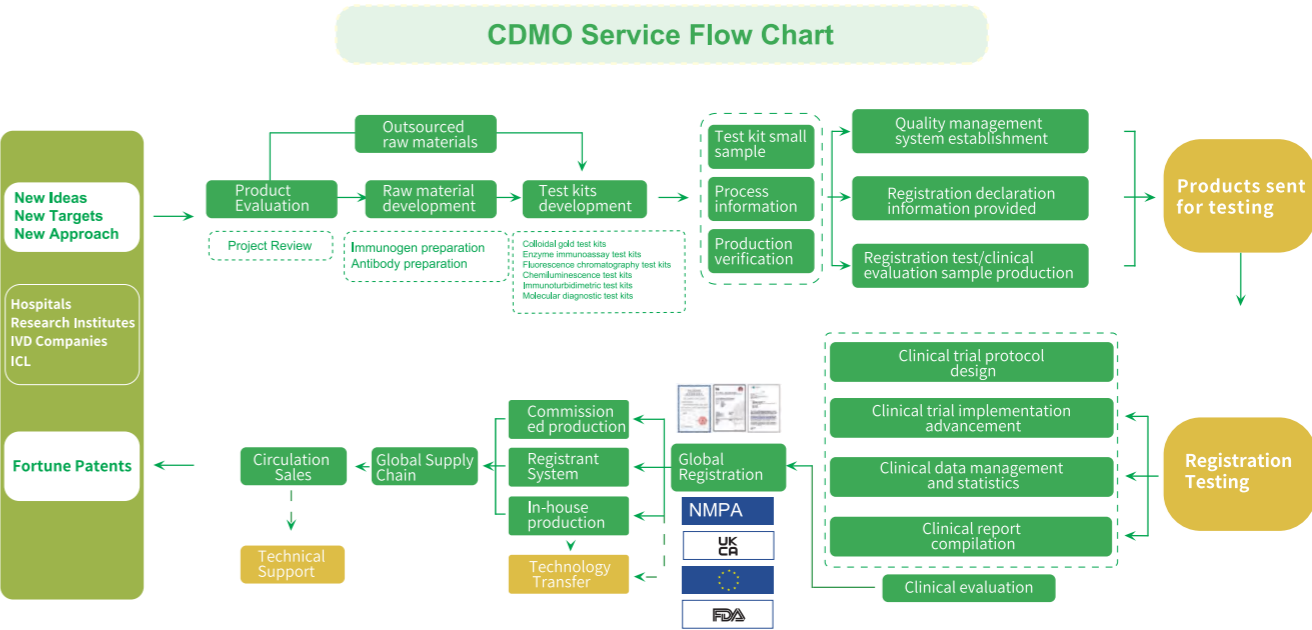
- a. Global sales
- b. Matching distributor resources
- c. Auxiliary marketing
- d. After-sales technical support

► (10) Registrant System

Raw material development→test kit development→technology transfer→registration declaration→commissioned production

- Time to obtain registration certificate reduced > 1 year
- Cost investment reduced by 50%
- Technical support by professional staff
- Antigen development cycle 1-2 months
- Antibody development cycle 4-6 months
- IVD test kit development cycle 3-4 months

2. CDMO Service Process



3. Core Business



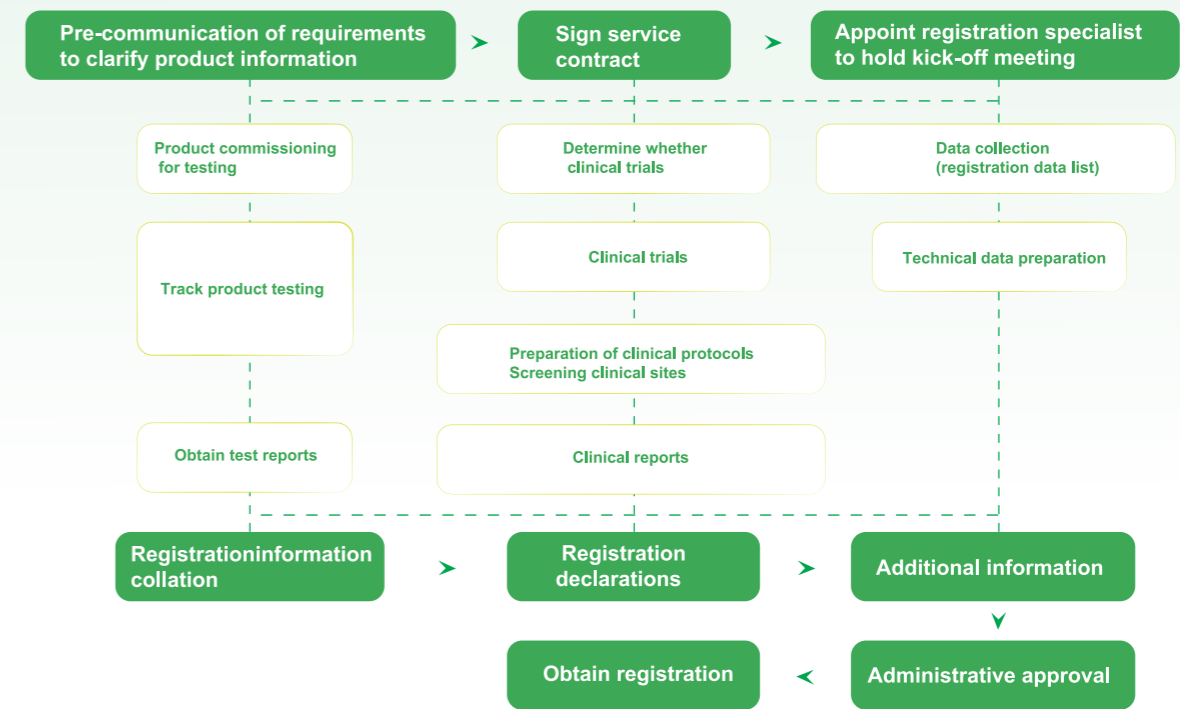
Custom development of proteins

Development Process	Experiment Schedule	Cycle Time	Experiment Content
1.Immunogen preparation	Preparation of immunogens	4-5 weeks	Gene synthesis and expression purification
2.Antibody preparation	Phase I: Immunization	6-8 weeks	Protein immunity or DNA immunity, cellular immunity
	Phase II : Cell fusion and screening	3-4 weeks	Electrofusion, ELISA screening and retesting
	Phase III: Subclonal screening and performance validation	6-8 weeks	Subclone screening, performance verification
	Phase IV: Delivery of recombinant antibodies	3-4 weeks	Hybridoma sequencing, paired antibody preparation, 3-5 mg each

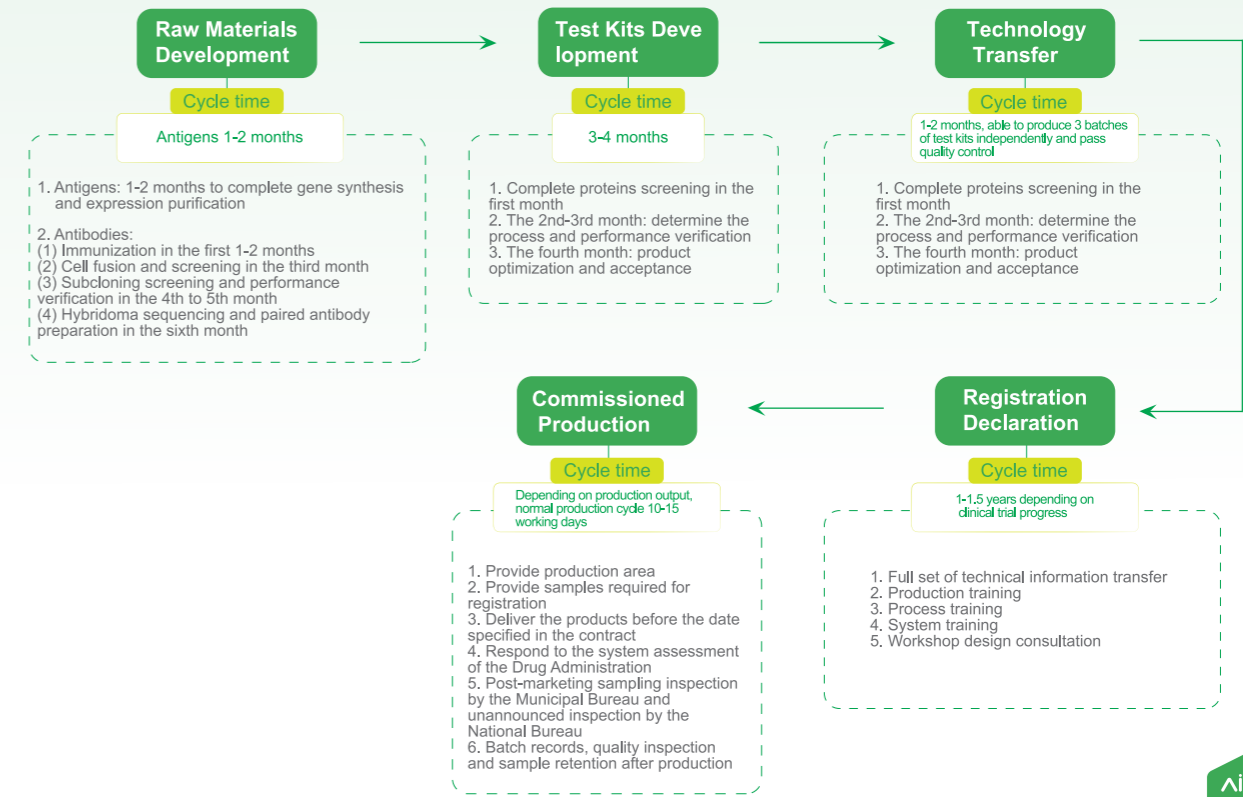
Custom development of test kits

Development Process	Cycle Time	Experiment Content
Primary sieving of raw materials	1-2 weeks	Preliminary screening of raw materials
Process and reaction System optimization	6-8 weeks	Determination of encapsulation concentration, determination of encapsulation system, optimization and determination of labeling conditions, and determination of treatment solution formulation, determination of reaction system (determination of dilution ratio, determination of reaction time, determination of screening and adaptation of consumables, etc.
Small sample validation	1 week	Verification of the performance of small samples
Intermediate test Thermal stability assessment	1 week	Produce 3 batches of intermediate tests and conduct thermal stability assessment
Sample acceptance and optimization	3-4 weeks	Sending samples to customers, acceptance, reagent optimization according to customer feedback

Medical Devices Registration

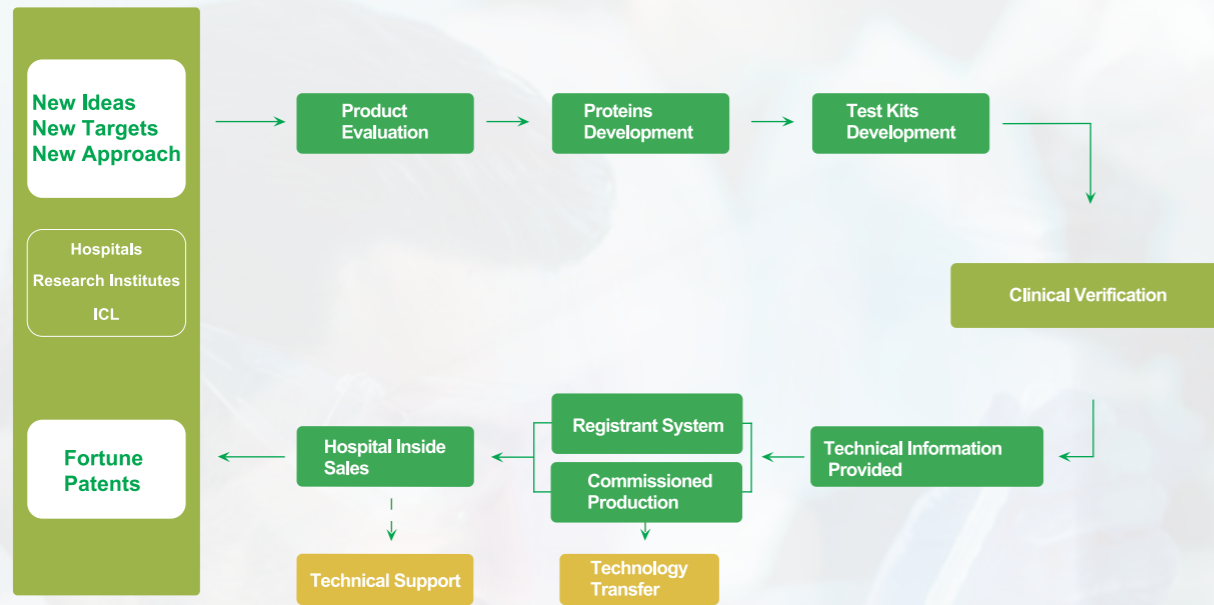


Registrant System



#### 4. Featured Services

##### LDTs (Lab Development Tests) Service Flow Chart



## TEAM ADVANTAGES

## Team Advantages



Ph.D. and Postdoctoral:  
5 people



Master's degree:  
15 people



R&D staff:  
50 people



Company staff:  
100 people

### Company Technology Leaders

Professor, PhD Tutor  
Senior Investigator at the National Institutes of Health

### Diagnostic Raw Materials R&D Director

Ph.D., senior expert with over 30 years of experience in recombinant protein and antibody development

### Diagnostic Test Kits R&D Director

Ph.D., graduated from University of Bayreuth, Germany, 12 years in diagnostic reagent R&D

### Registration Director

16 years in the industry, 6 years in medical device companies + 10 years in certification consulting.  
Coaching on the preparation of technical documents for various products.  
Cumulative service of more than 200 clients for mainstream system construction.  
Covering most medical device categories.

## PARTNERS





## In Vitro Diagnostic Reagents CDMO Service Provider

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Shenzhen Aivd Biotechnology Co., LTD.

In Vitro Diagnostic Reagents CDMO/CRO Service Provider



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