



The Outlook of DR. Chip

DR. Chip Biotechnology Incorporation



Market of Food safety testing

Year	Country	Total value	
2004	American	277 million dollars	
2009	American	416 million dollars	1.5 times
2012	American	3.35 billion dollars	8.1 times
2017	American	4.4 billion dollars	+1.05 billion dollars
2004	Taiwan	117 million NTD	
2009	Taiwan	175 million NTD	
2012	Taiwan	<700 million NTD	
2020	Taiwan	3 billion NTD	
2020	China	792 million dollars	
2018	Global	19.7 billion dollars	

Resource : Taiwan Institute of Economic Research



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Product Advantage of DR. Chip

The technology of DR. Chip will lead the food testing toward miniaturization



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The Difference of DR. Chip



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Customers need to prepare



All you need is 30 m² space and 1 operator

Services of DR. Chip

- Lab planning and design
- Operate equipment
- Procedure teaching
- After-sales service
- Professional advice



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Food safety detection system

DR. ELISA

Extract



Centrifuge



Concentrate



Screen & Result



Operating



Only in 2 hours



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The Advantage of DR. Chip's ELISA Kit

Applicability

Diversity

Substitution

Stability



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「食品安全鐵三角」

食安黑心無良廠商在台灣無法立足





They all choose DR. Chip



Industrial development of DR.CHIP

✓ Human Diagnostics

- 1) DR. HPV Genotyping IVD Kit
- 2) DR. MTBC Screen IVD Kit
- 3) DR. Microorganism IVD Kit
- 4) Contact lens(Subsidiary Operating)

✓ Food & Plant Science

- 1) DR. Food-10 Kit
- 2) Betagro DR. Salmonella Kit
- 3) DR. Milk Kit
- 4) DR. Brewery Kit
- 5) DR. Orchid Kit

✓ Pathogen Screening Reserch

- 1) DR. HBV IVD Kit
- 2) DR. RV (Respiratory Virus) IVD Kit
- 3) DR. EV (Enterovirus) IVD Kit

✓ Apparatus

- 1) DR. Mini Oven
- 2) DR. Fluidic Station
- 3) DR. AiM Reader



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DR. Food-10

solve all problems of microorganism assay

DR. Chip

Ensure Food Safety

DR. Food-10™ Kit



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TROUBLES

when you use traditional microorganism assay method



Lots of people/materials



Pollutions of microorganism



Mass experiment space



Plenty of time



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DR. Food-10

solve all problems of microorganism assay



Immediately
Production line never stop



Cost Down !
(People/Time/Supplies)



Simple & Fast
Result comply with CNS



Certification of DR. Food-10 Chip

b) 検出キット類 食品衛生検査指針(2004)

製品名	用途	製造または販売元
PYR キット	鑑別用	アスカ純薬、三菱ヤトロン、Oxoid
サルモネラチェック	イムノアッセイ	三菱ヤトロン
F-サルモネラ「生研」	イムノアッセイ	デンカ生研
サルモネラアッセイ	イムノアッセイ	Gene Trak
Dynabeads anti Salmonella	イムノアッセイ	Dynal
Salmonella-Tek ELISA	イムノアッセイ	オルガノ
Reveal	イムノアッセイ	Neogen
Assurance Salmonella EIA	イムノアッセイ	BioControl
Path-Stik Salmonella IC, Dip stick	イムノアッセイ	Lumac
TECRA Salmonella VIP	イムノアッセイ	セティ
Salmonella immunoassay	イムノアッセイ	Transia
Taq Man Salmonella PCR Amplification / Detection Kit	DNA アッセイ	PE ビオシステムズ
核さんテストサルモネラ	DNA アッセイ	日本製粉
Amplification / Detection Kit	DNA アッセイ	PE ビオシステムズ
サルモネラ菌 (invA) 遺伝子, One Step PCR Screening Kit	DNA アッセイ	タカラバイオ
DR. Food™ chip	DNA アッセイ	関東化学



ISO 13485(2003)



SN/T 1543(2005)



中华人民共和国出入境检验检疫行业标准

SN/T 1543—2005

食源性致病菌基因芯片鉴定方法

GeneChip methods for identification of foodborne pathogens

2005-02-17 发布

2005-07-01 实施

中华人民共和国发布
国家质量监督检验检疫总局发布



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Worried about fake meat?

You may trust DR. Meat

DR. Chip

DR. Meat™ Kit

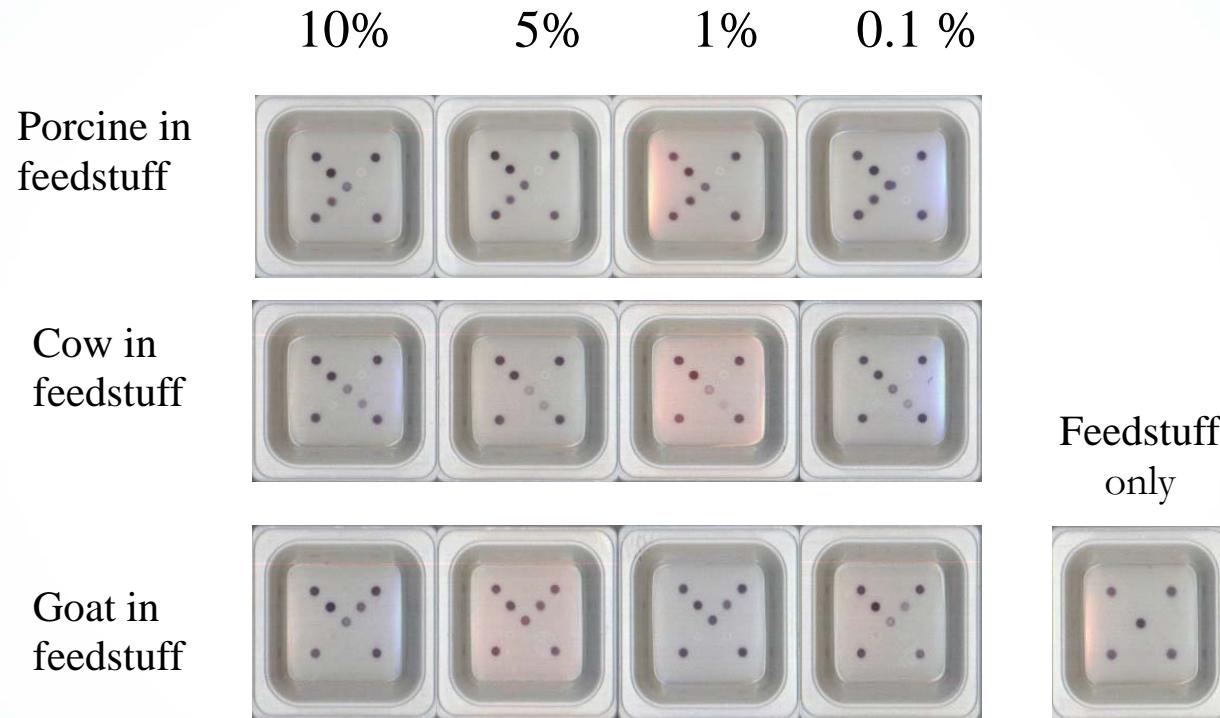


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DR. Meat

Extremely few meat also can be tested



- ⇒ Even though only 0.1% meat in feedstuff, it also can be tested.
- ⇒ DR. Meat can be used on "Vegetarian identification" and "HALAL certification"



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DR. HPV Genotyping IVD Kit

(晶宇人類乳突病毒基因分型檢測套組)

第三類查登許可證 - 第004934號



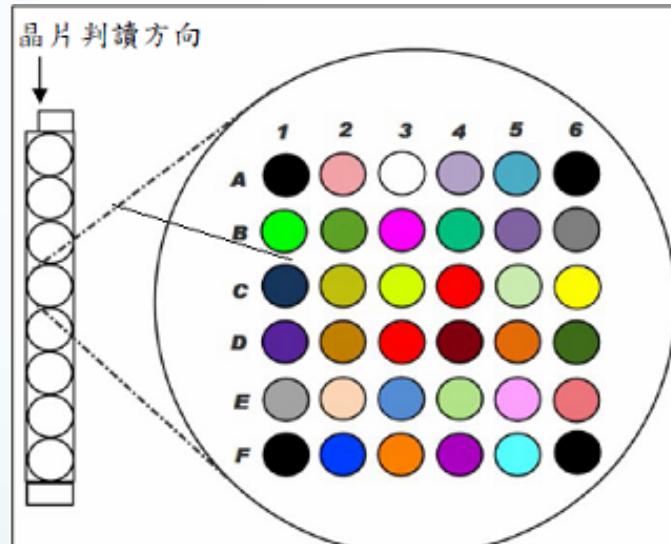
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DR. HPV Genotyping IVD KIT

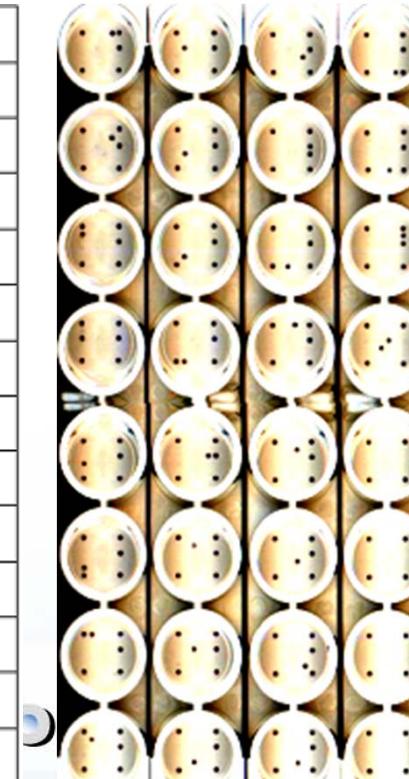
(晶宇人類乳突病毒基因分型檢測套組)

- 可同時偵測27種HPV型別，並具有一HPV共通性探針
- 階段式品管：PCR control (β -globin)，Hybridization control
- 高風險型別：HPV16/18/31/33/35/39/45/51/52/56/58/59/68/73/82
- 中低風險型：HPV6/11/53/54/61/62/66/69/70/72/81/84



A1, A6, F1, F6	●	Hybridization Positive Control
C4, D3	●	β -globin
A3	○	Negative control
C6	●	HPV consensus

B1	●	HPV16	A4	●	HPV68
C1	●	HPV18	B4	●	HPV69
D1	●	HPV31	D4	●	HPV70
E1	●	HPV33	E4	●	HPV73
A2	●	HPV35	F4	●	HPV82
B2	●	HPV39	A5	●	HPV6
C2	●	HPV45	B5	●	HPV11
D2	●	HPV51	C5	●	HPV54
E2	●	HPV52	D5	●	HPV61
F2	●	HPV53	E5	●	HPV72
B3	●	HPV56	F5	●	HPV81
C3	●	HPV58	B6	●	HPV84
E3	●	HPV59	D6	●	HPV62
F3	●	HPV66			



TECH
products



DR. MTBC Screen IVD Kit

(晶宇結核分枝桿菌群檢驗試劑套組)

第三類查登許可證 - 第003020號

DR. Chip Microorganism IVD Kit

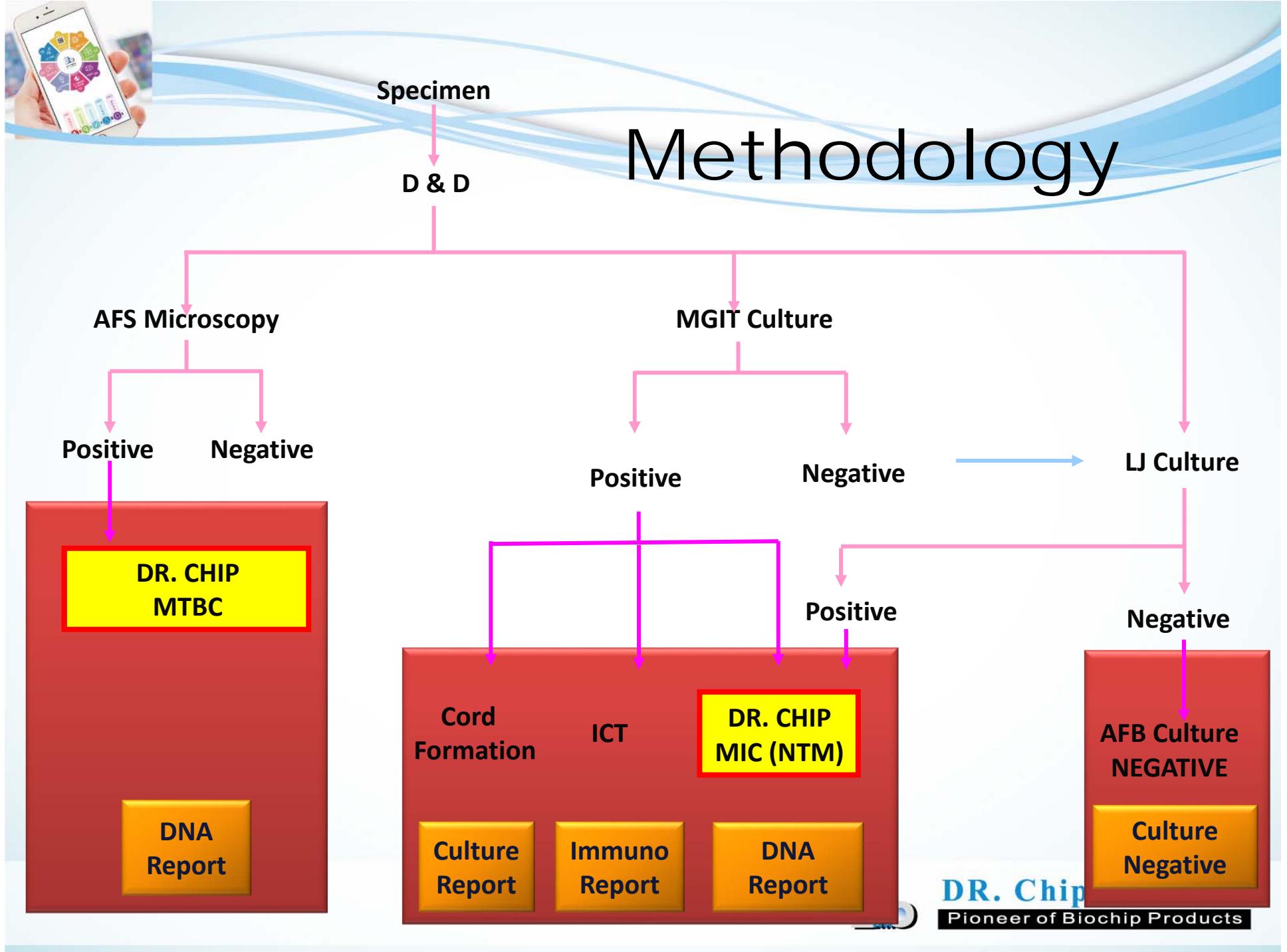
(晶宇微生物檢驗試劑套組)

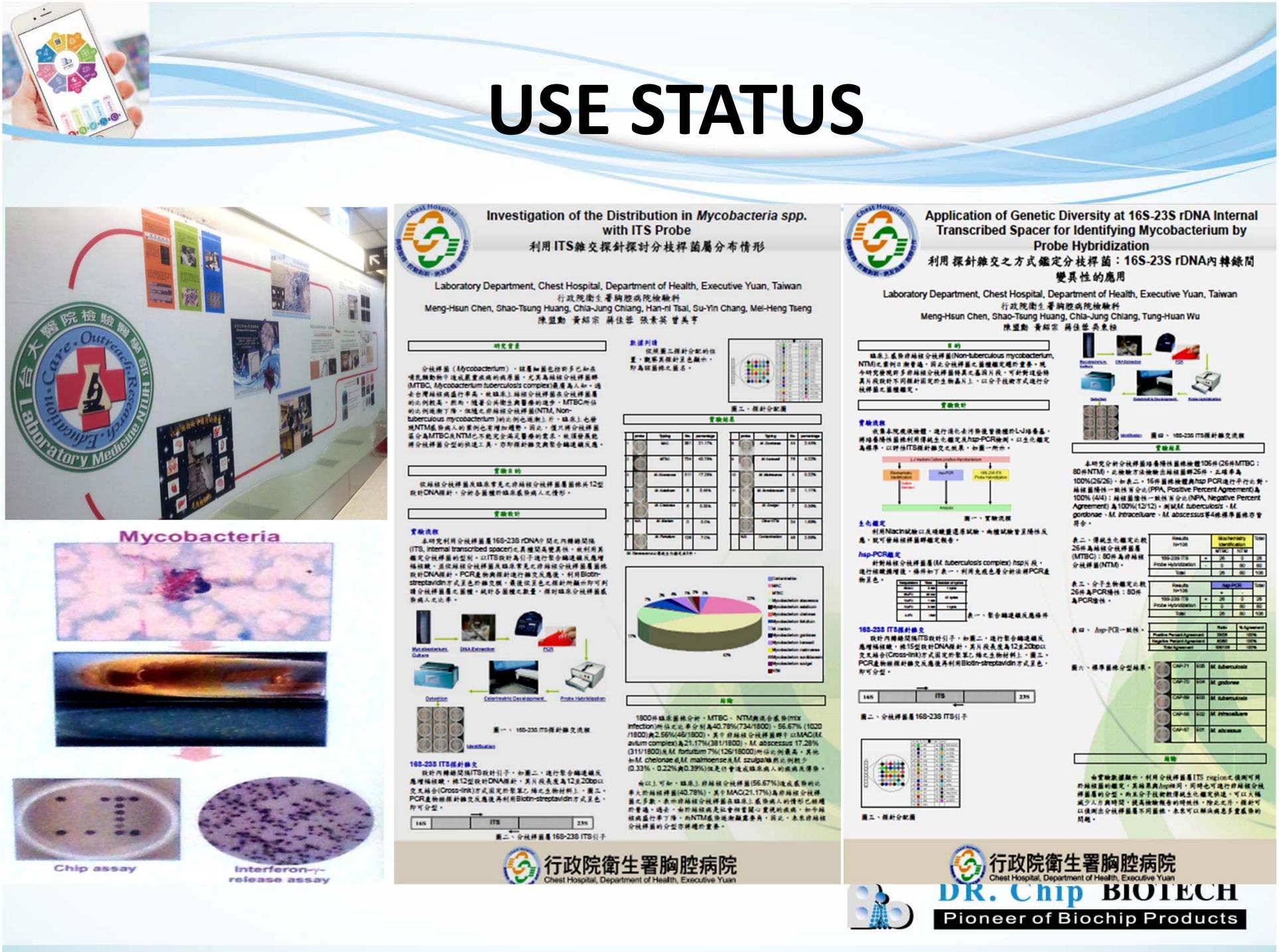
RIF抗藥檢驗及17種非結核分枝桿菌分型

第一類查登許可證 - 第004446號



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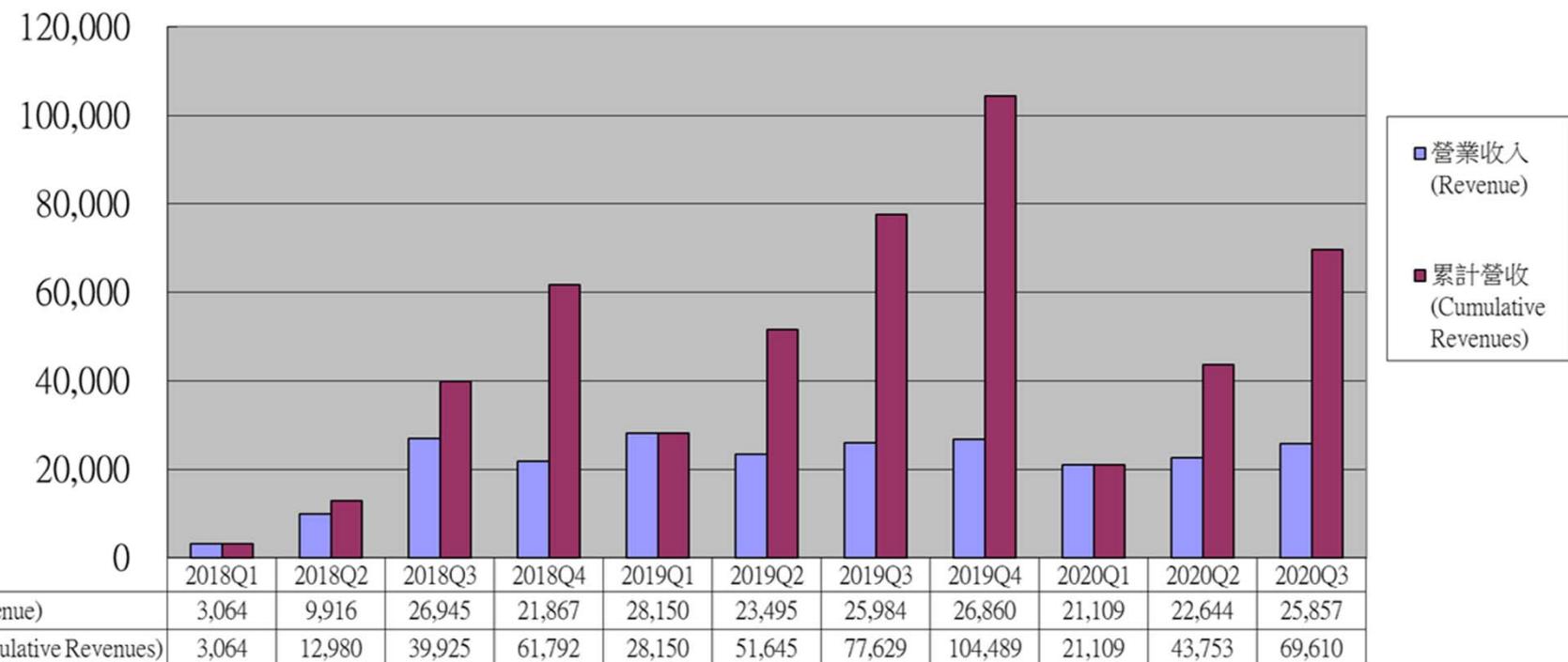




Financial status and risk of DR.CHIP

DR.CHIP is still at a loss state in recent years , so please investors should be prudent investment.

單位:仟元,每季(UNIT:THOUASND,QUARTER)

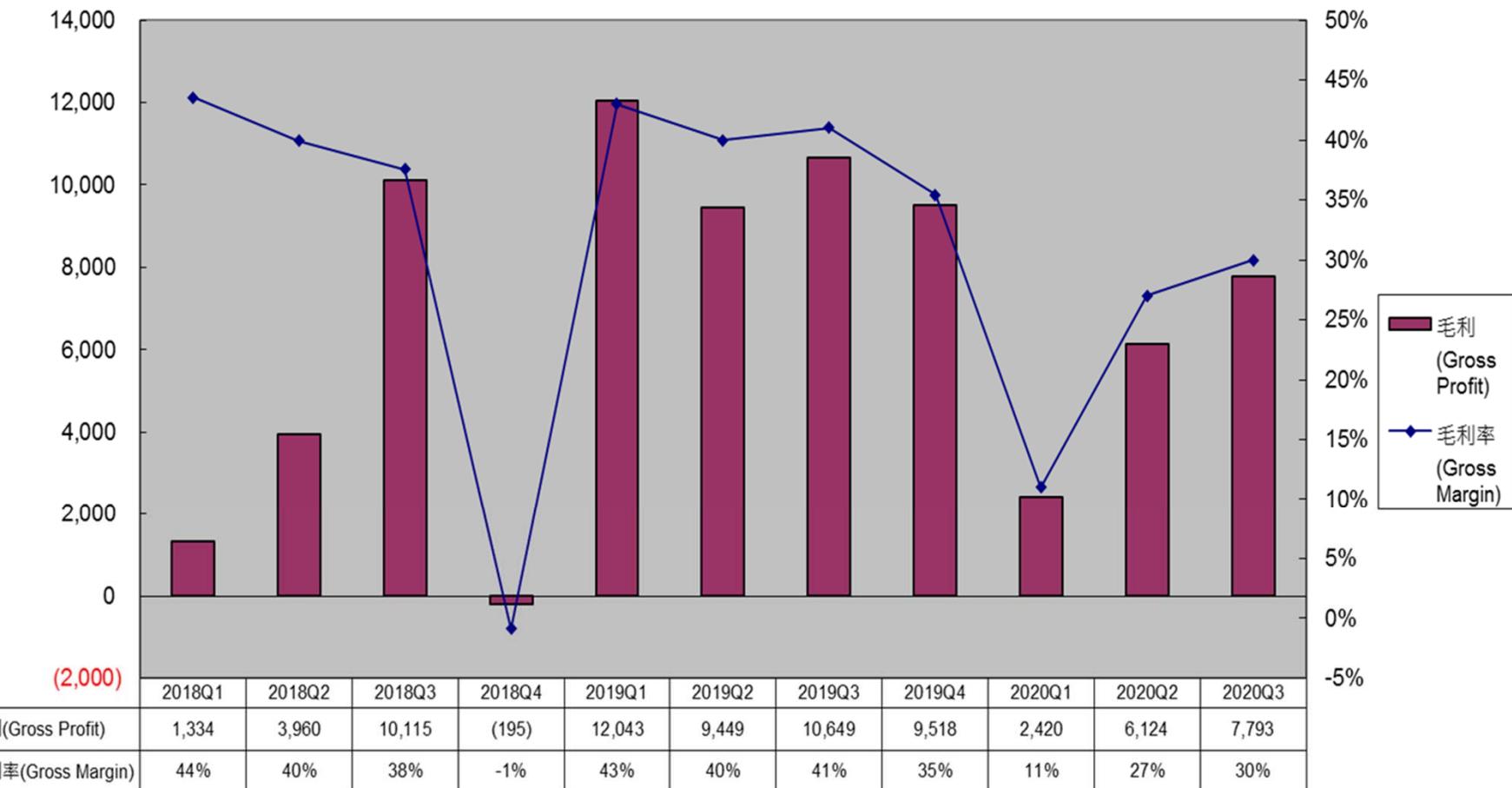


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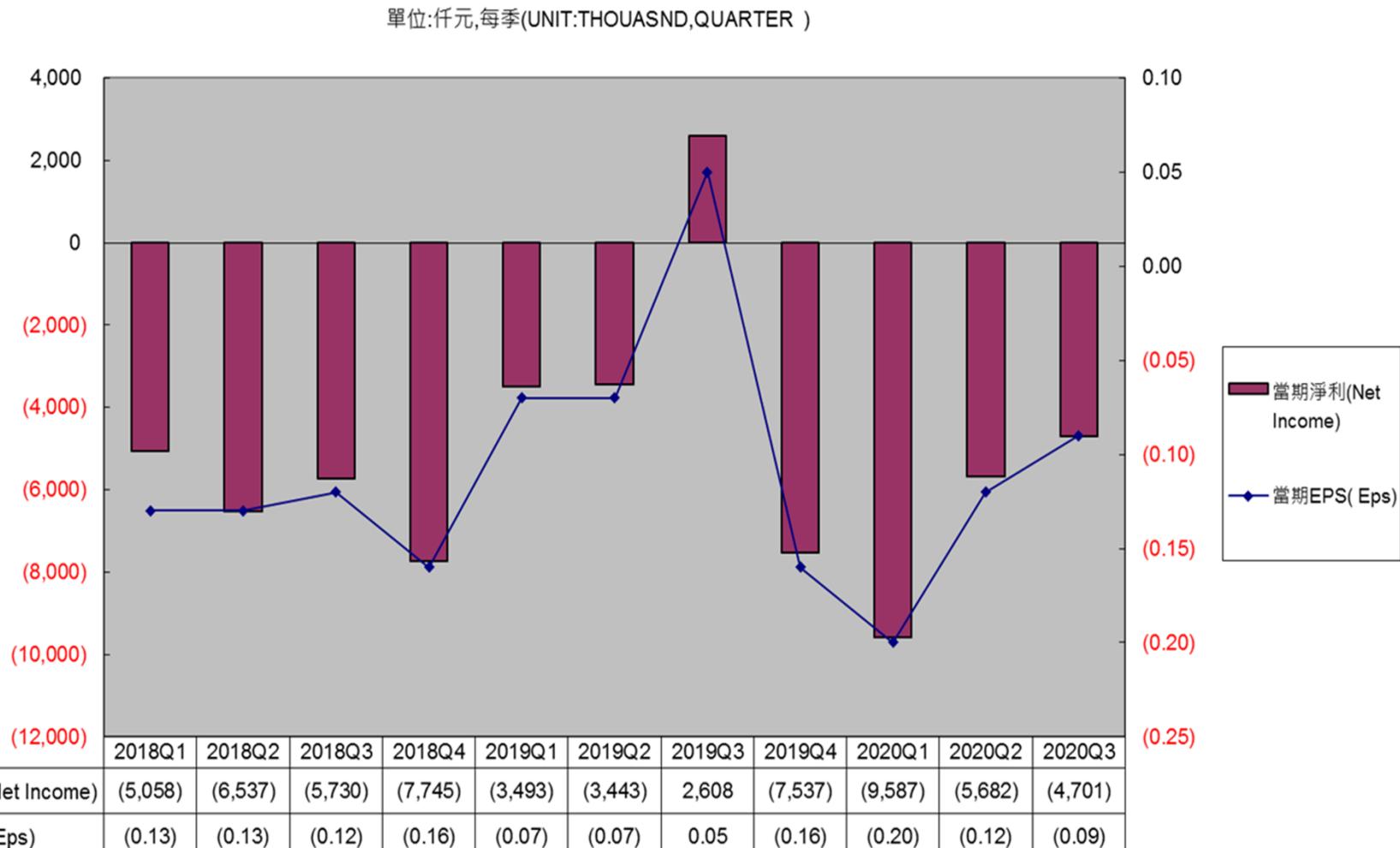
單位:仟元,每季(UNIT:THOUSAND,QUARTER)



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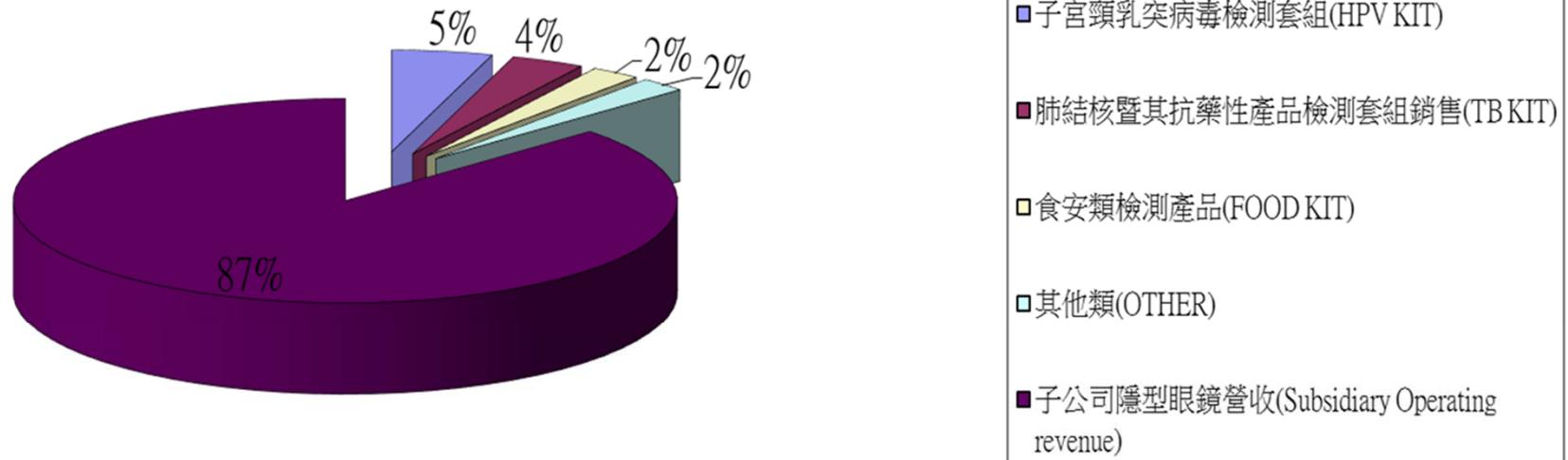


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2020 YEAR PRODUCT CATEGORY (UNIT:THOUASND)



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THE END



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