



กรมวิทยาศาสตร์การแพทย์  
Department of Medical Sciences

# สำนักยาและวัตถุเสพติด

(Bureau of Drug and Narcotic)

## กรมวิทยาศาสตร์การแพทย์

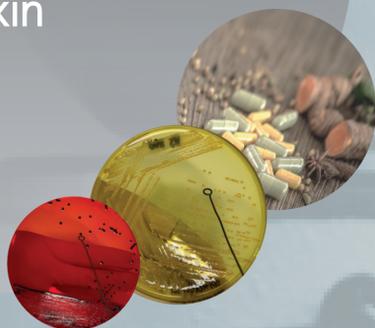
(Department of Medical Sciences)

### Quality testing

- Pharmaceutical products
- Biopharmaceutical products
- Herbal medicines
- Food supplements

### Biological

- Microbial enumeration
- Sterility
- Test for specified microorganisms
- Bacterial endotoxin
- Toxicity
- Pyrogen



- Best laboratory practices
- Drug and narcotic focus
- Notable quality

### Chemical and physical

- Identification
- Assay
- Related substances, impurities
- Uniformity of dosage unit
- Dissolution, Disintegration
- Loss on drying
- Water content
- Particulate matter
- Heavy metal
- pH
- Residual solvent



### Biological evaluation

#### Medical devices

#### In vitro:

- Cytotoxicity, Bacteria endotoxins, Hemolysis, Permeability microorganisms



#### In vivo:

- Acute systemic toxicity, Intracutaneous, Implantation, Pyrogen



### Post marketing surveillance

- Pharmaceutical products and dietary supplements

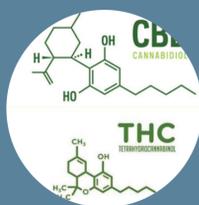
#### -Identification

#### -Assay



### Proficiency testing

- 7 schemes (pH, Assay: UV and HPLC, Dissolution: UV, Sterility, IR, Assay: THC, CBD in medicinal cannabis products)



### Test kits

#### Sibutramine test kit

(Thin Layer Chromatography, TLC)



#### Steroid test kit

(Thin Layer Chromatography, TLC)