



**CMA Testing
and Certification
Laboratories**
廠商會檢定中心

How Product Testing Services Help You?



Evidences of Conformity

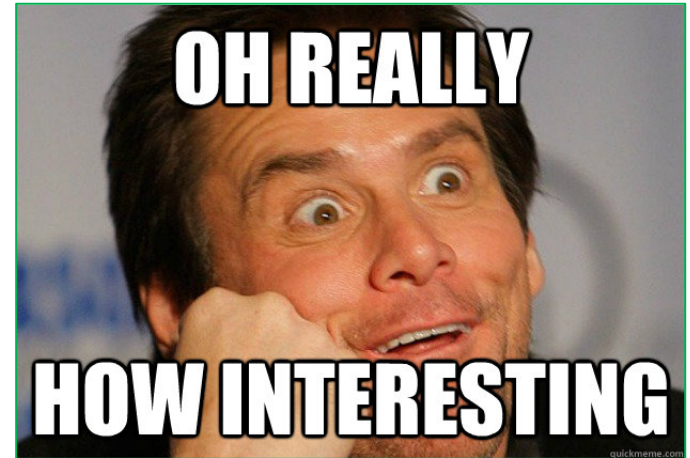
Manufacturer / Seller /
Exporter

My Products are ...

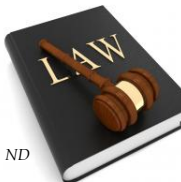


Images from Naobharat Packaging, 2017; 123RF, 2017; Cabrio structures, 2017; Nimbo, 2014

Buyer / Consumer /
Importer



Any Evidence ?



Images from Quickmeme, ND; Service Virtualization Today, 2017; Recognizethis! Blog, 2017; Focolare, ND



Recall of Problematic “Toys & Children Products”

Toy Musical Instrument (China -> Poland)

- Easily accessible batteries (choking hazard)
- Not comply with EU Toy Safety Directive & relevant regulations
- Product withdrawal



(EU RAPEX, 2015)

Toy Helicopter (China -> US)

- Overheat of USB charging cords (fire & burn hazards)
- Not comply with Consumer Product Safety Act
- Stop using and replace charge cord (325,000 units)



(US CPSC, 2016)

Recall of Problematic “Toys & Children Products”

Plush Toy (Latvia -> Germany)

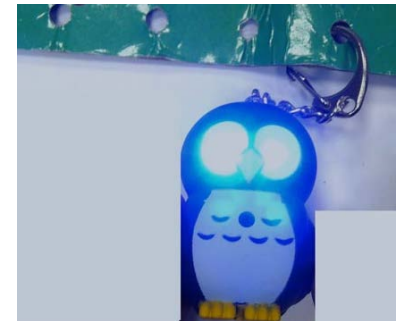
- **Phthalate (DEHP)** detected in crackling foils of wings (**chemical hazard**)
- **Not comply** with **REACH**
- **Product withdrawal**



(EU RAPEX, 2016)

LED Key-ring (China -> Czech Republic)

- **LED light > Class 1** (**damage to sight**)
- **Not comply** with **EU Toy Safety Directive** & relevant regulations
- **Ban on marketing**



(EU RAPEX, 2015)

Recall of Problematic “Toys & Children Products”

Small Children Playsuits (China -> Canada)

- **Detachment of zipper tab / pull** (choking hazard)
- **Not comply** with **Consumer Product Safety Act**
- **Recall** (2,457 units) and **Refund**



(Healthy Canadians, 2016)

Children’s Shoes (China -> New York)

- **Sharp edges** in shoe **rivets** (laceration hazard)
- **Not comply** with **Consumer Product Safety Act**
- **Recall** and **Refund**



(US CPSC, 2017)

Testing Services for Toys and Children Products



- Physical & Mechanical
- Toxic Elements & Chemicals
- Flammability
- Hygiene
- Electrical & EMC
- Radioactivities
- Other hidden risk



Recall of Problematic “Textiles, Apparel & Hardgoods”

Children’s Swimwear (China -> Bulgaria)

- **Trapping of cords** in waist area (**injury hazard**)
- **Not comply** with **EU standard**
- **Product withdrawal**



(EU RAPEX, 2016)

Birch Candle (Australia)

- Birch could **catch fire** and remain **alight longer than permitted** (potential **burns**, serious **injury or death**)
- **Not comply** with **Consumer Protection Notice**
- **Stop Using** and **Refund**



(Australian Competition & Consumer Commission, 2016)

Testing Services for “Textiles, Apparel & Hardgoods”



Physical & Safety Test

- **Structure** (e.g. fabric density)
 - **Strength** (e.g. tensile strength)
 - **Performance** (e.g. pilling)
 - **Fibre & Yarn**
 - **Shrinkage**
 - **Colorfastness**
 - **Appearance**
 - **Flammability**
- REACH (e.g. **cadmium**, **SVHC**)
 - CPSIA (**lead**, **phthalate**)
 - Others (e.g. **pH**, **formaldehyde**, **azo dye**)



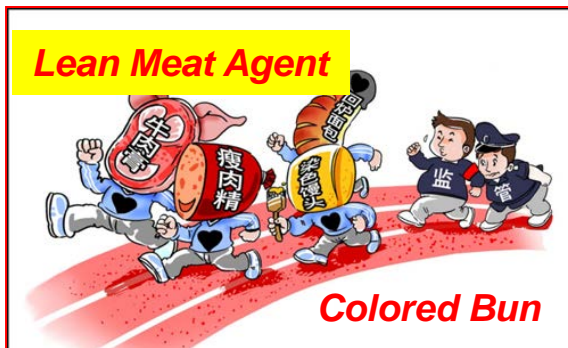
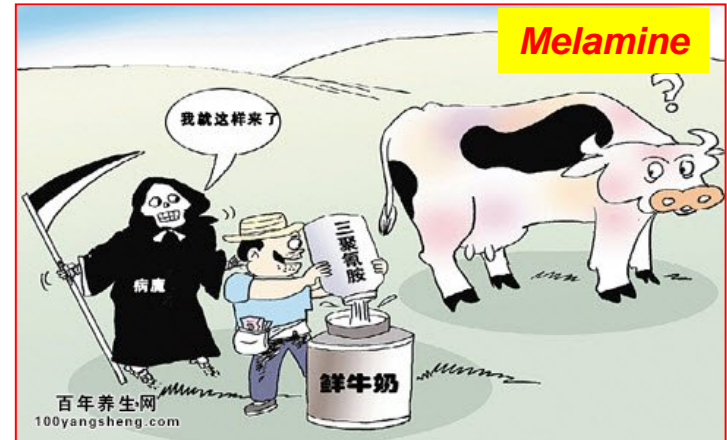
Chemical Test



Recall of “Problematic Food”



(Image from AD Internet Limited, 2014)



(Image from Xinhuanet, 2011)



(Image from 100yangsheng.com, 2014)



(Image from On cc, 2016)

...more



Testing Services for Food

Colorants



Metals



Vet. Drug



Sweeteners



Pesticides



Toxins



Nutrients
&
Label
Review

營養資料 Nutrition Information	
每100克/Per100g	
能量/Energy	380千卡/kcal
蛋白質/Protein	6克/g
總脂肪/Total fat	3克/g
-飽和脂肪/Saturated fat	1.5克/g
-反式脂肪/Trans fat	0克/g
碳水化合物/Carbohydrates	82克/g
-糖/Sugars	5克/g
鈉/Sodium	120毫克/mg

Other Contaminants /
Harmful Substances

Preservatives
&
Antioxidants



Mineral
Oils



Chemical

Bacteria



Yeast & Mold



Virus



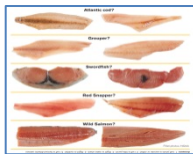
Parasites



Biological

Others

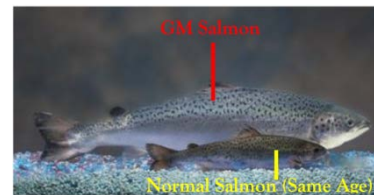
Food
Authentication



Allergens



GMOs



Shelf-
life



(Images from Living traditionally, 2015; Onlybrother.com, 2015; Qianzhan.com, ND; Powerapple, 2015; Natural News, 2014; Science Fair Project, ND; Groundspeak, 2017; Reddit, ND; Oceana, 2011; Sino Biological Inc, 2015; AquaBounty Technologies, 2015; Appledaily, 2014; Dreamstime, ND)



Food Contact Materials Testing



- Safety (e.g. heavy metal migration, phthalates)

Pharmaceuticals Testing



- Safety (e.g. heavy metals, pesticides, drug adulteration)
- Stability & Product Specification

Electrical and Electronic Products Testing



- Safety (e.g. EMC, electricity, temp, noise)
- Performance (e.g. energy efficiency, durability)

Testing - A Key to Global Market Access



- Technical Regulations
- Standards
- Testing, Calibration & Inspection
- Certification
- Packaging
- Labelling
- ...etc.

**HOKLAS
Report is
Widely**

Recognized !!!

TESTING



PROOF

if proof were needed...

Compulsory / Voluntary



(Images from Kenny Viviana, 2015; NSW Gov, 2017; Faraday Schools, 2011; Axis Logistics and Packers, 2015)

Testing - Manage Risk and Protect Your Brand

- **Demonstrate national** and even **international compliance**
- **Confident to manufacture or sell** your product anywhere



(Images from Southwest Wisconsin Technical College, 2017; ERVE, ND)

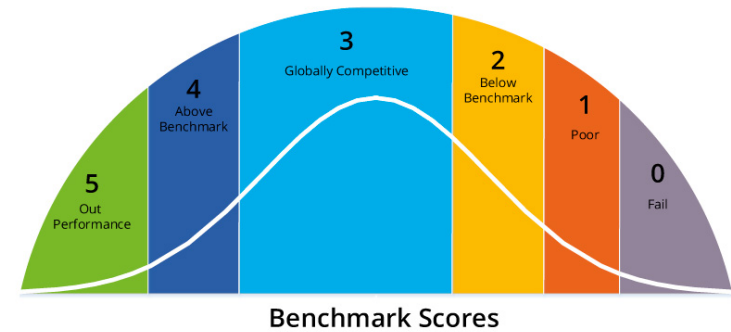
- **Reduce** the risk of **product recall**
- **Faster market entry**
- **Save cost and time**



(Images from Jewel92, 2017; Assignment Help Experts, 2011; BP automation, 2013)

Testing - Drive for Quality Improvement

- **Benchmark performance** against a competitor's brand
- **Identify the defects / inadequacies / area for improvement**

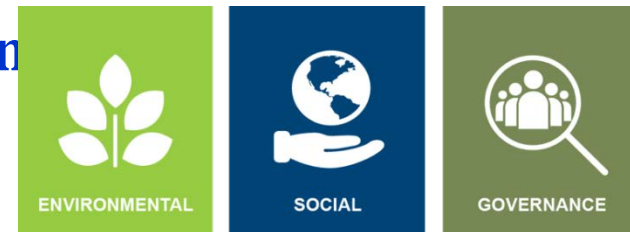


(Image from 2thinknow, 2016)

Testing - Satisfy Customer Need

- **Assure products** are of high quality and reliable
- Demonstrate **environmental & social responsibility**
- **Meet or even exceed customer expectation**
- **Maximize your market opportunities**

(Image from Colony Northstar, 2017)



What does “hairy crabs detected with dioxins” incident tell?



(Image from Headline Daily, 2016)

- Testing is a **MUST**
- Responsibility to Test - **government**, but also **manufacturer, importer**, etc.
- **Selecting test items** is very **important**

Smart Testing / Risk-based Testing !!!

Risk-Based Testing

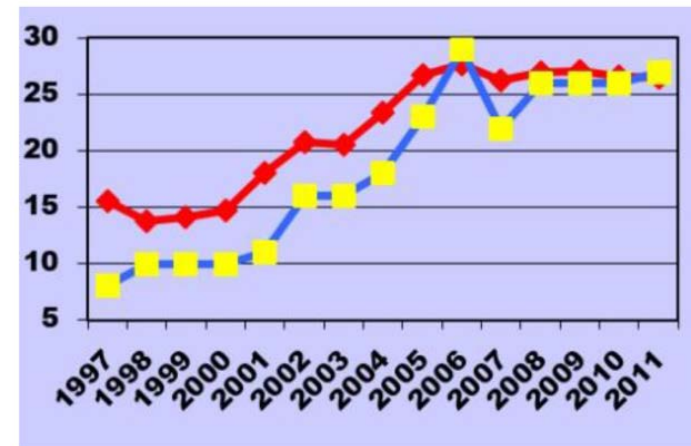
- **Prioritize** the **Legal Test Items**
- **Risk = Probability x Severity**
- Consider the **Risk Factors** e.g.

1. Prevalence of the Hazard

- Review history of non-compliance
- No. of violations in different commodities
- Trends of detection



(Image from Wordpress, 2013)



(Image from EFSA, 2014)

Risk-Based Testing

2. Health Risk / Environmental Risk

- Exposure level vs. acceptable level e.g. ADI

3. Supplier Conformity Guarantee / Rating

- Manufactured under ISO management system or equivalent
- Conformity evidences (e.g. test reports, official certificates)

4. Country / Territory of Origin

- Previous non-conformity found

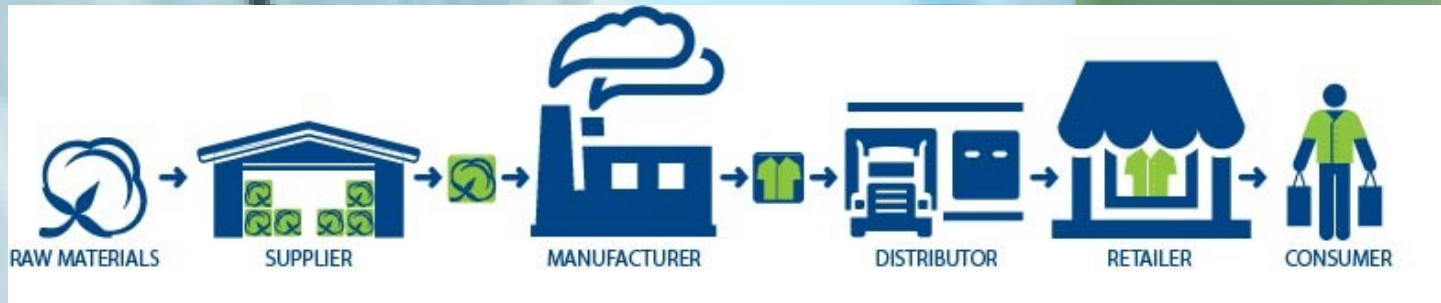
...etc.



检测报告
TEST REPORT

健康证书
HEALTH CERTIFICATE





WE ARE...





Thank you!

CMA Testing