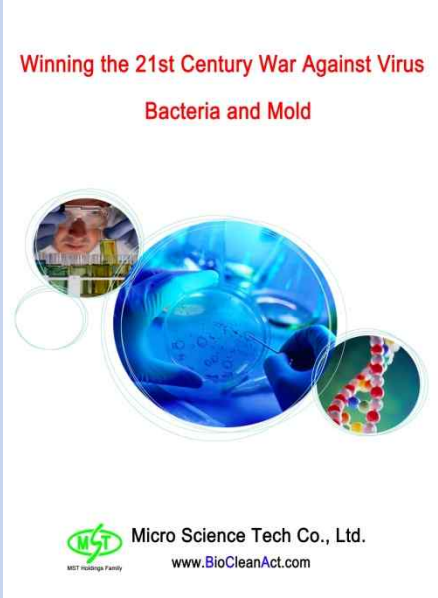
Micro Science Tech Co., Ltd.

Suwon, Korea



BioCleanAct™

"Winning the 21st Century War Against Virus, Bacteria and Mold"

Introduction to Micro Science Tech Co., Ltd.

Micro Science Tech, Co., Ltd. ("MST") is a leading edge R & D company focused on the development of New anti-microbial raw materials with three key characteristics:

- Non-toxic
- Environmentally safe
- Strong, Stable, Long-term Efficacy

•BioCleanAct™ ("BCA") is the company's family of anti-microbial raw materials with all of these characteristics.

•Q-Ria® is the company's family of consumer products featuring BioCleanAct™ as an active agent.

Company Facts

HQ Office & R&D Center :	#1004~1003 Suwon Venture Valley, 40, 152 Omokcheon-ro, Gwonseon-gu, Suwon, 441-813 Korea Tel: +82.31.298.0820 Fax: +82.31.298.2368
Factory :	32, Wanlim 1-gil, Wanglim-ri, Bongdam-eup, Hwasong City, Korea
Established :	Oct. 04, 1999.
Registered Capital :	₩1,000,000,000
CEO :	Moon, Woong-Sig / Ph. D

Introduction to Micro Science Tech Co., Ltd.

Business Focus: Research, development and production of anti-microbial materials with three characteristics:

- Non-toxic
- Strong, long-term efficacy
- Environmentally Safe

Product Lines:

1. Natural extract new raw material and use the make Consumer Personal Care & Home Care products with anti-microbial active ingredients.
2. Anti-Microbial Master Batch (Bioplastics)
3. Natural Disinfectants, commercial quality.

Introduction to Micro Science Tech Co., Ltd.

Industrial Target Markets:

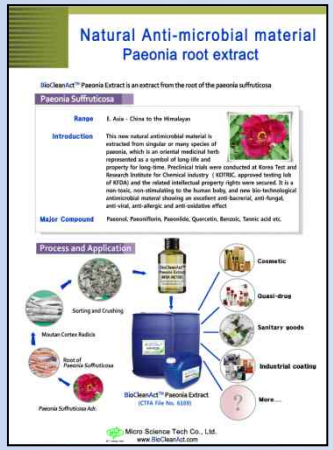


- Food Production & Food Packaging
- Plastic Molding(Auto mobile, electronic etc.)
- Medical Products
- Water storage/coolers and water infrastructure
- Building Construction Products
- Textile, military etc.

Consumer Target Markets:

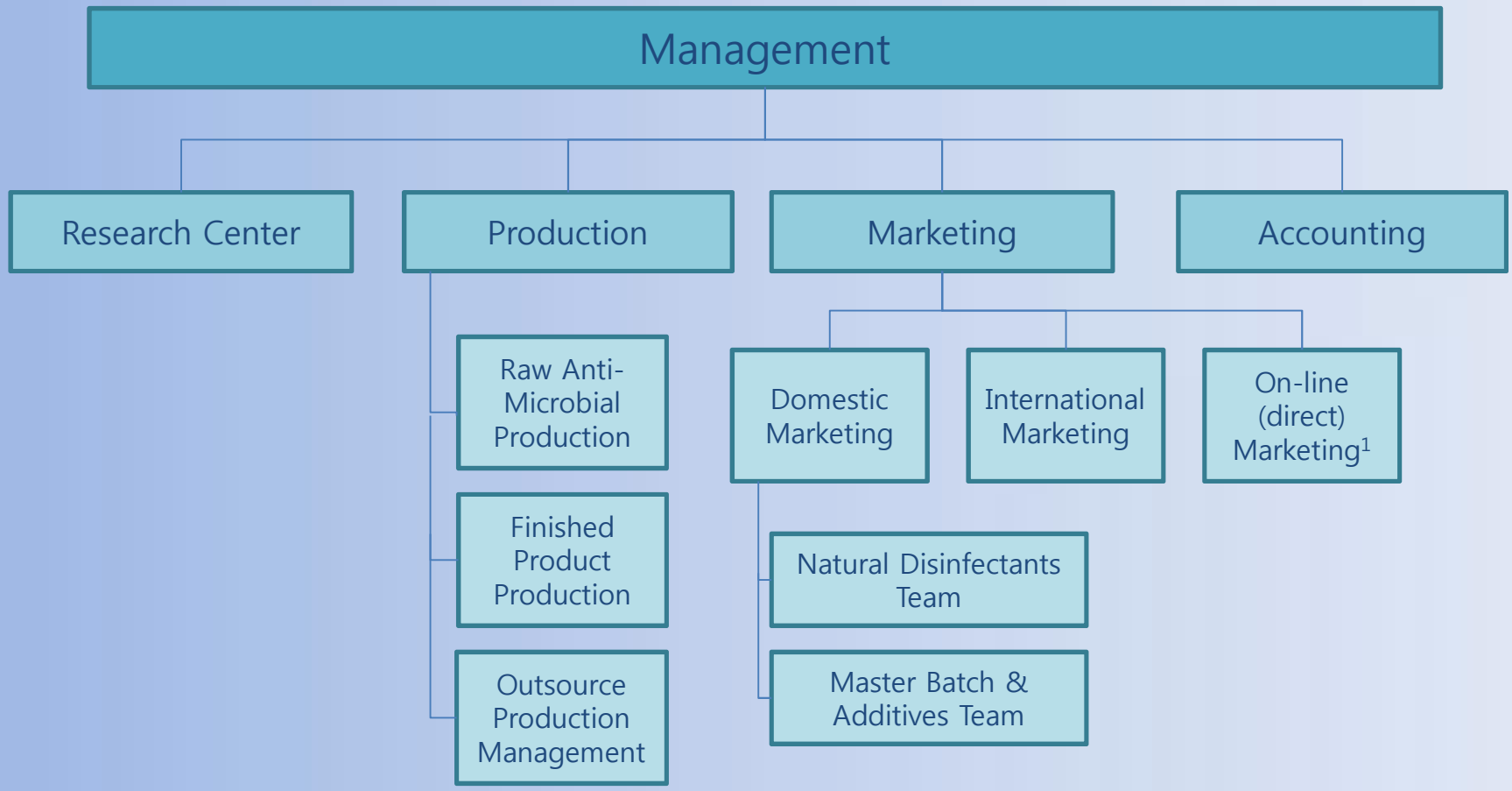


- Skin Care
- Foot Care
- Body Deodorants
- Home Sterilizers
- Home Deodorizers





Company Structure



[1]Online/Direct marketing and distribution is through partner company

Key characteristic of BioCleanAct™ Anti-microbial Materials

- Non-toxic to humans
  - Safe for consumer products
  - Safe for food contact use
  - Safe for medical products
- Environmentally Safe & Biodegradable
  - Production does not harm environment
  - Disposal does not harm environment
  - Low/no migration
- Strong, Stable, Long-term Efficacy
  - Broad spectrum efficacy
  - Long term efficacy
  - Efficacy not reduced in water
  - Efficacy not reduced in sunlight
  - Does not degrade in high heat

BioCleanAct™ Testing and Certifications

Material	Testing and Certification
BioCleanAct™ Natural Anti-microbial material	• CTFA No. File No. 6169 • INCI name: Paeonia Suffruticosa Root Extract • Approved testing KOTRIC[1]: (E.coli, S. epidermidis, S.Mutans, C.albicans, T. rubrum)
BioCleanAct™ Synthetic Anti-microbial material	• ISO 9001 • Approved testing Korea FDA[1] • Approved testing FDA cGLP • Korea and International Patents • SCI International Papers

[1] Korea Testing and Research Institute

BioCleanAct™ Efficacy









Materials	Efficacy[1]
BioCleanAct™ Natural Anti-microbial material	• Eshericha Coli • Staphylococcus aureus • Bacillus dysenteriae • Typhoid bacillus • Paratyphoid bacillus • Proteus • Pseudomonas • Haemophilus pertussis • Streptococcus`
BioCleanAct™ Synthetic Anti-microbial material	•Eschericha coli • Staphylococcus aureus • Salmonella typhimunium • Listeria momocytogenes • Legionella Pneumophilia • Bacillus Subtilis • Bacillus cereus • Pseudomonas aeruginosa • Micrococcus leuteus • Klebsiella pneumoniae









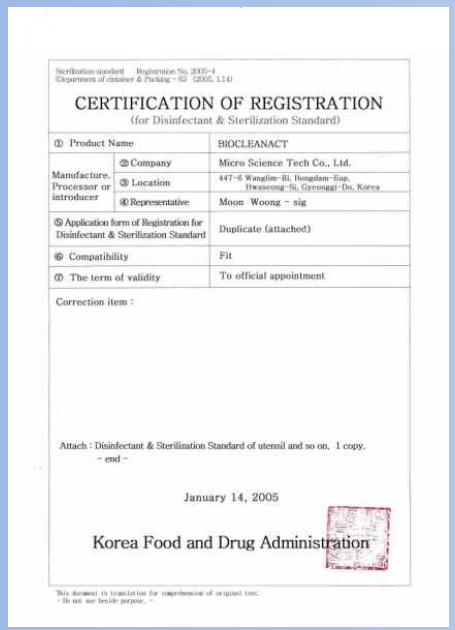
[1] Korea Testing and Research Institute

BioCleanAct™ Anti-microbial materials

Classification	Item Number	Description
Natural extraction New anti-microbial raw materials	MSK-NE150 (O)-oil bone (W)-Water bone	Natural Peonia Root Extract (CTFA No. File No. 6169)
Natural Ingredient Anti-microbial master batch (Bioplastics)	BCA-502MBN	BioCleanAct™ Master Batch LLDPE
	BCA-503MBN	BioCleanAct™ Master Batch PVC
	BCA-504MBN	BioCleanAct™ Master Batch SAN
	BCA-505MBN	BioCleanAct™ Master Batch PP
	BCA-506MBN	BioCleanAct™ Master Batch ABS
	BCA-507MBN	BioCleanAct™ Master Batch PET
	BCA-508MBN	BioCleanAct™ Master Batch Nylon
	BCA-509MBN	BioCleanAct™ Master Batch PC
Synthetic Anti-microbial Additive (Medical Devices)	BCA-9002	BioCleanAct™ additive for medical devices

BioCleanAct™ Anti-microbial Products

Classification	Item Number	Description
Natural Anti-microbial Disinfectants	BCA-9300 (20kg), BCA-9302 (200kg), BCA-9304 (500ml spray bottle)	BioCleanAct™ Natural Disinfectant
	BCA-9310 (20kg), BCA-9312 (200kg), BCA-9314 (500ml spray bottle)	BioCleanAct™ Food Additive (non-alcohol sanitizer)



CERTIFICATION OF REGISTRATION
(for Disinfectant & Sterilization Standard)

① Product Name		BIOCLEANACT
Manufacture, Processor or introducer	② Company	Micro Science Tech Co., Ltd.
	③ Location	447-6 Wanglim-Ri, Bongdam-Eup, Hwaseong-Si, Gyeonggi-Do, Korea
	④ Representative	Moon Woong - sig
⑤ Application form of Registration for Disinfectant & Sterilization Standard		Duplicate (attached)
⑥ Compatibility		Fit
⑦ The term of validity		To official appointment

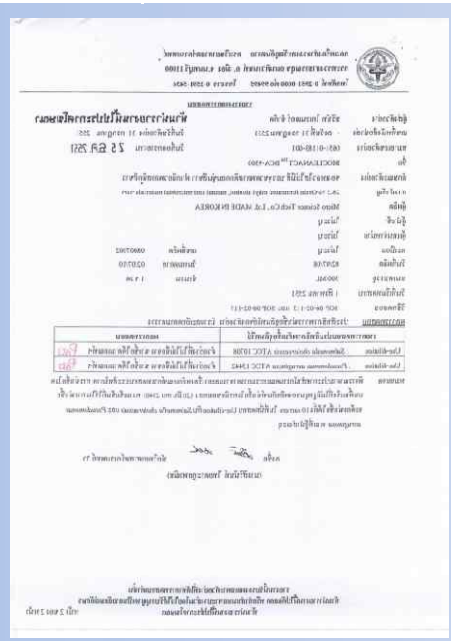
Correction item :

Attach : Disinfectant & Sterilization Standard of utensil and so on. 1 copy.
- end -

January 14, 2005

Korea Food and Drug Administration

Korea FDA



Thailand FDA

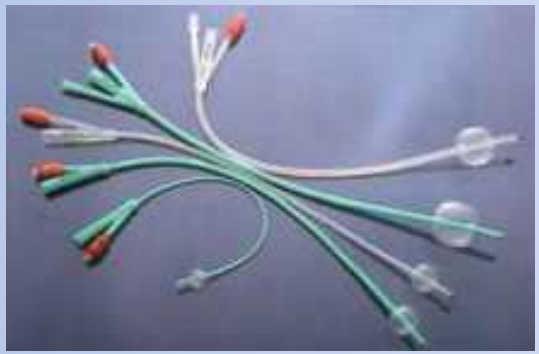




BioCleanAct™ Customers

Manufacturing	Service	Consumer
Food Processing	Airline / Transportation	Consumer Personal Care
Food Packaging	Health Care	Consumer Home Cleaning
Construction Materials	Building Maintenance	Consumer Home Products
Medical Products	Hospitality	







BioCleanAct™ Customers



MST Holdings Family

MST Holdings Family

Micro Science Tech Co., Ltd.
#1004~1003 Suwon Venture Valley, 40, 152 Omokcheon-ro,
Gwonseon-gu, Suwon, 441-813 Korea
Tel: +82.31.298.0820~2 , Fax: +82.31.298.2368

www.BioCleanAct.com