



DRUG COMBINATION FOR IMPROVED EFFICACY

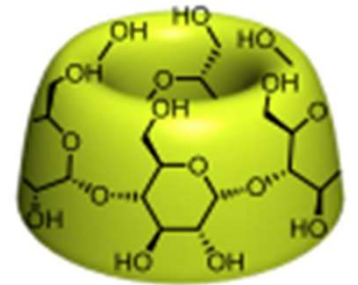
THERIOPHARM

Targeting antibiotic resistance

Drug Delivery systems (DDSs)

Gels

Drug combination



NANOMEDicine Platform

⦿

IT: intra-tumoral
IV: intra-venous
IP: intra-peritoneal

⦿ Oral/enteral

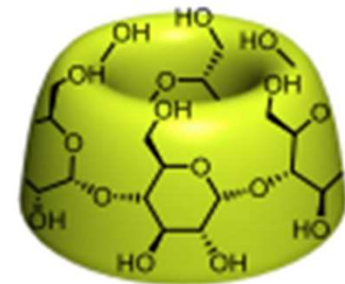
⦿ Other routes: nasal, sublingual,
transdermal, rectal, vaginal, pulmonary...

THERIOSOME

ANY THERAPEUTIC application

ANY ADMINISTRATION ROUTE

**Molecular encapsulation with
commercial & proprietary
cyclodextrins (CDs)**

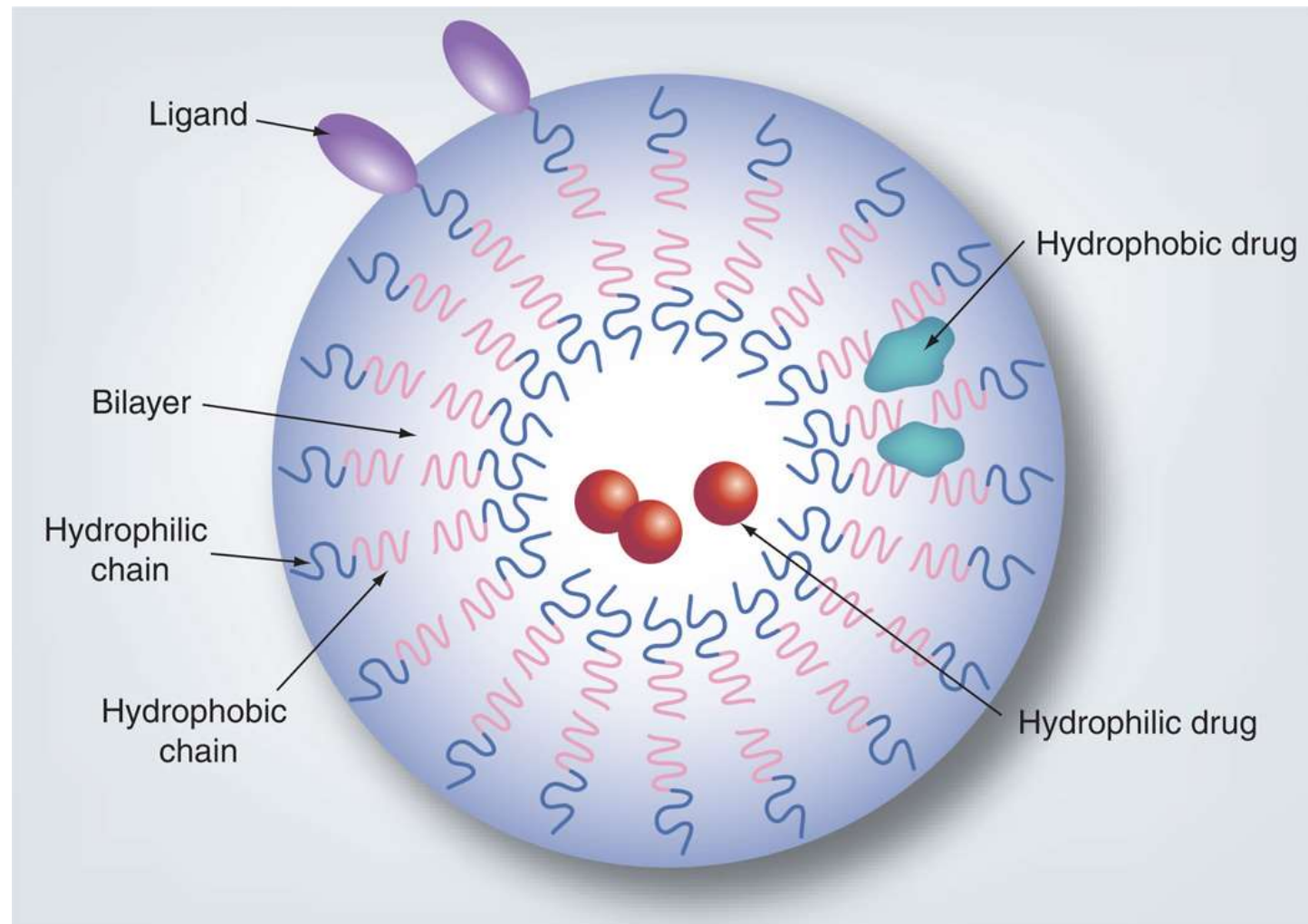


THERIOSOME PLATFORM

Size 50 to 60 nm

**Pharmaceutical grade
excipients**

+ GRAS components



ANTIMICROBIAL platform THERIOCIDe for
tackling antibiotic resistance

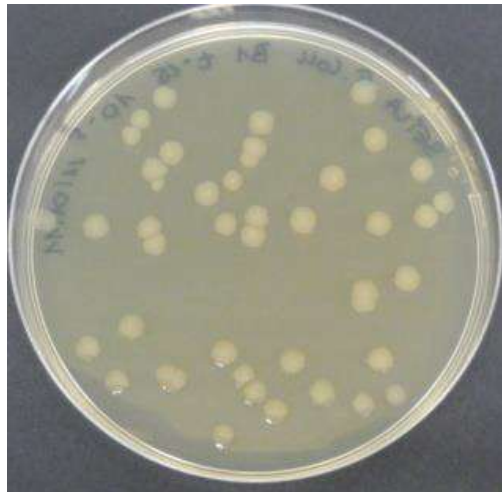


Nosocomial multi-/pan- resistant pathogens:

Acinetobacter Baumannii

Staphylococcus aureus

Pseudomonas aeruginosa

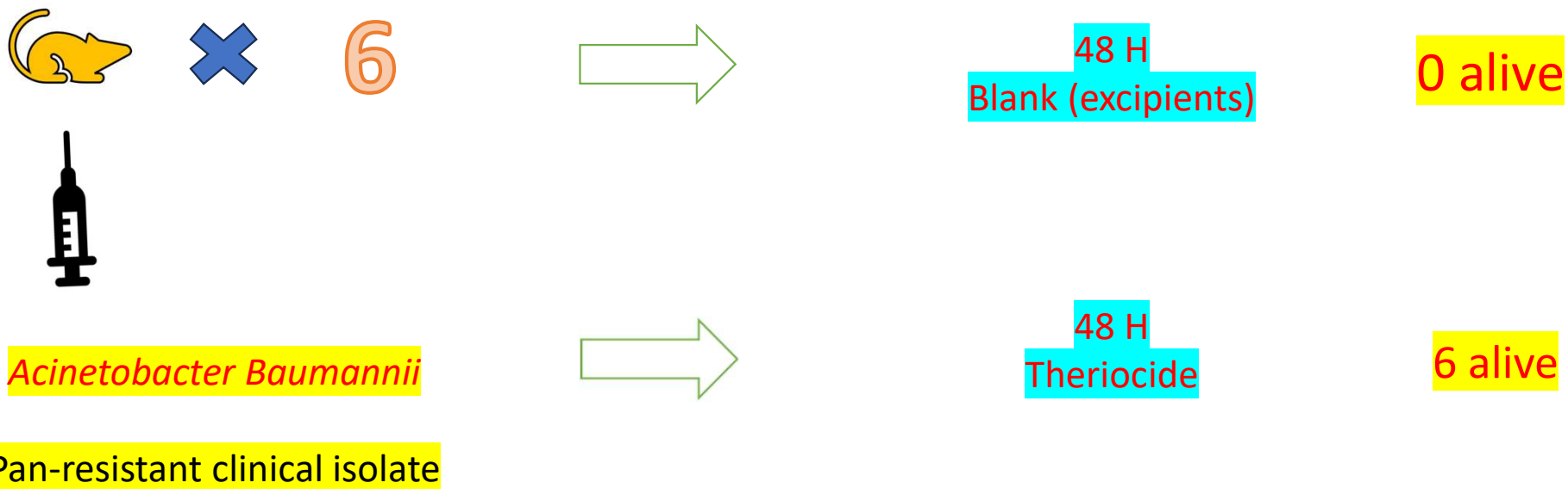


IV and IP routes validated under murine sepsis models during preclinical tests

THERIOCIDe for killing viruses, fungi & bacteria

Broad antimicrobial activity on > 250 pathogen species

Bacterial (Gram negative) SEPSIS murine model

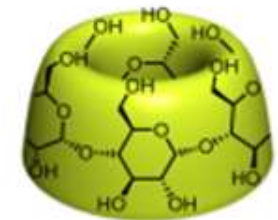
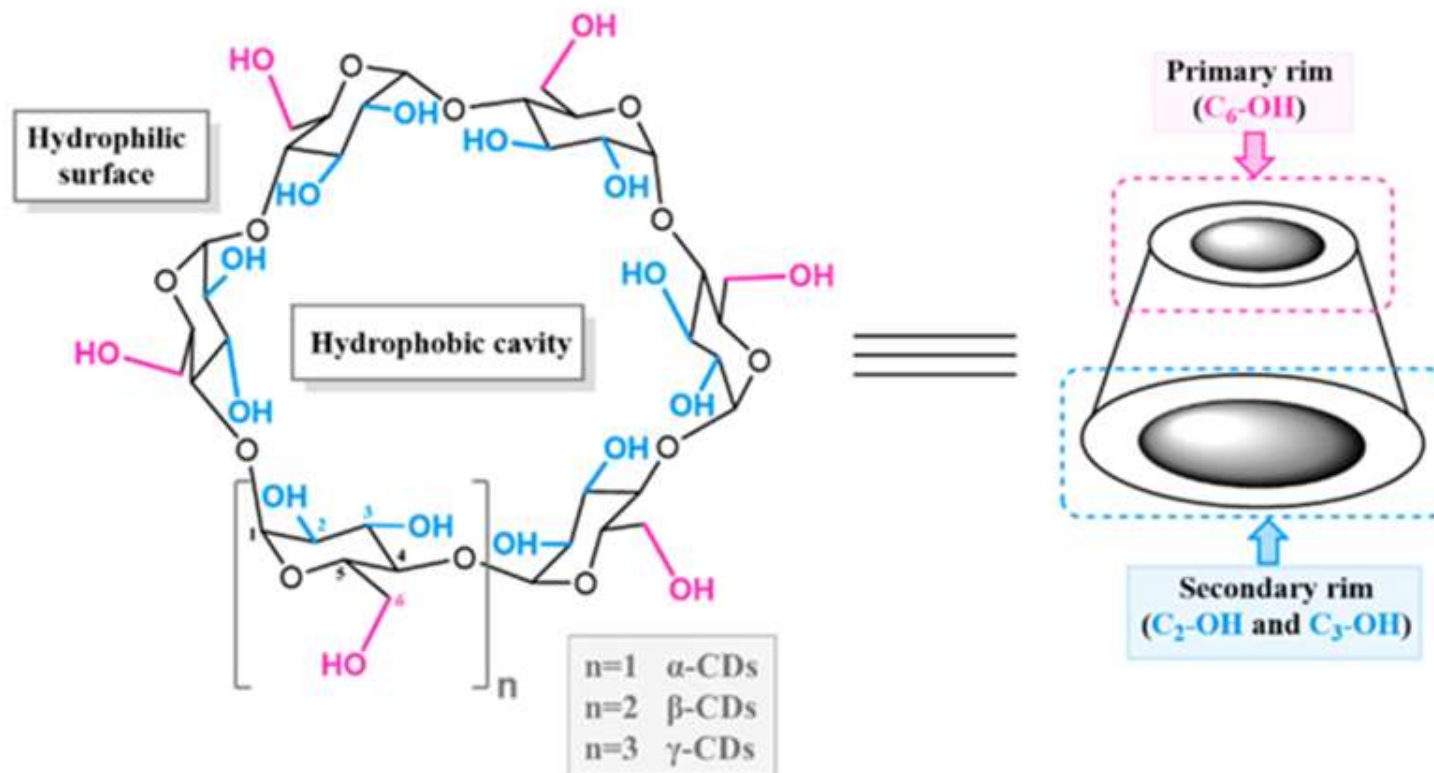


THERIOCID specific COMBINATION of 3 NON-ANTIBIOTIC MOLECULES
for tackling antibiotic resistance

Molecular cages: protecting and delivering actives

THERIOPHARM

Cyclodextrin derivatives with improved molecular recognition properties and
chlathrate formation ability towards selected hosts.



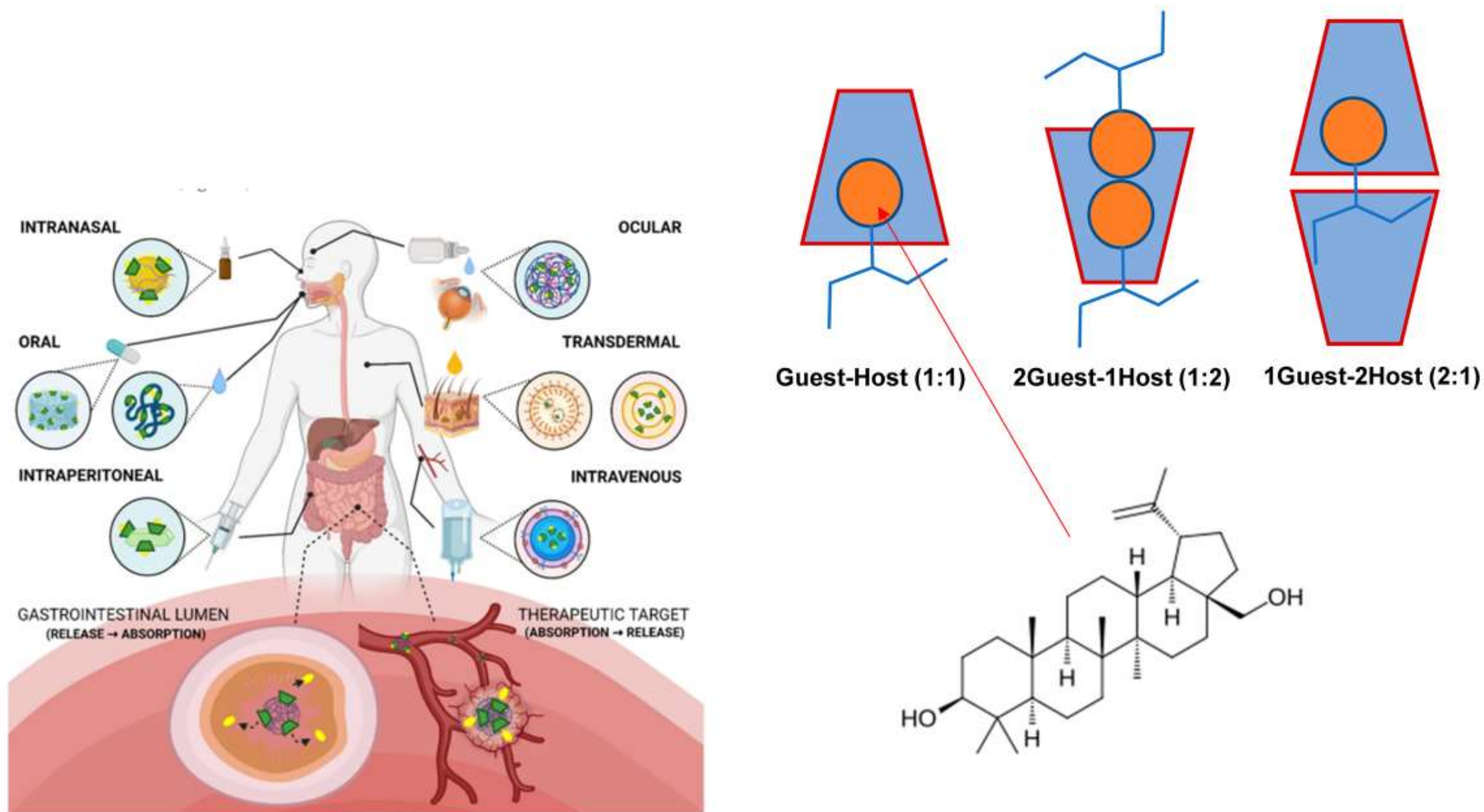


Figure 5. Different routes of administration where CD-modified nanomaterials have been shown to increase bioavailability.
Created with [BioRender.com](https://www.biorender.com).

THERIOGELS:

Aquagels

Glycerogels

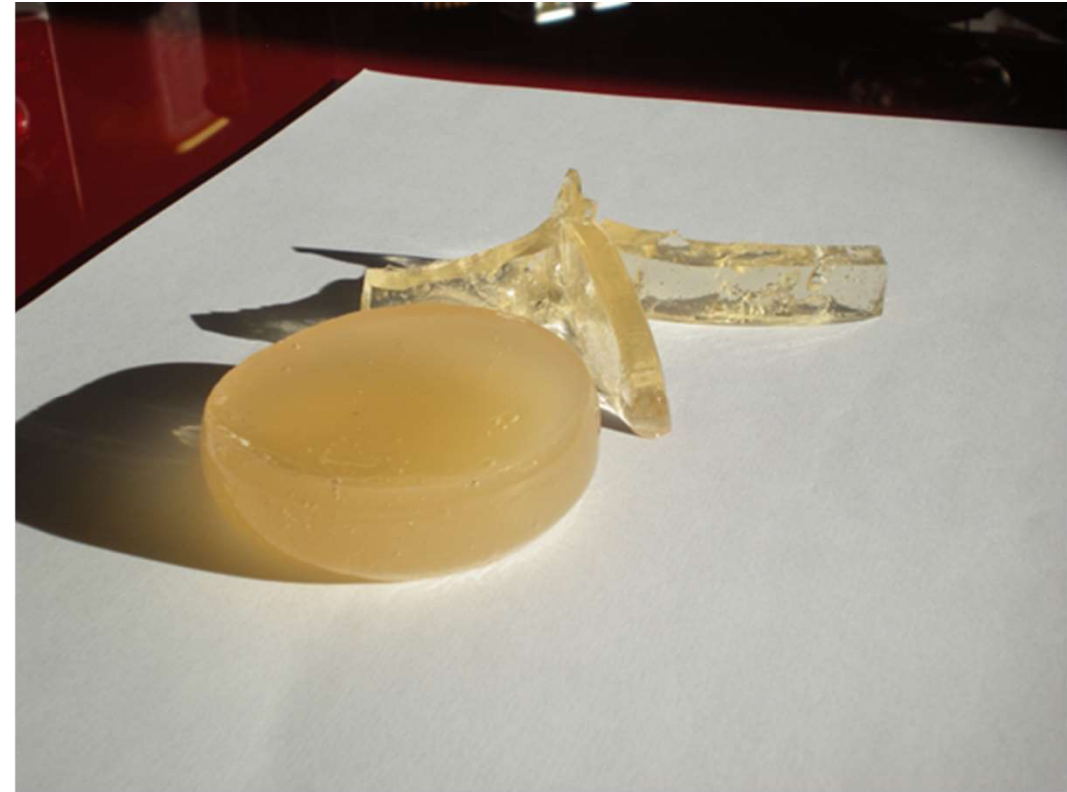
Supramolecular gels (CDs polyrotaxanes)

Nano-sponges (crosslinked CDs polymers)

Thermosensitive gels (pharma grade):

liquid at ambient T°

gel at body T°



CAN CONTAIN ANY TYPE of bioactive or food ingredient:
antimicrobials, antioxidants, vitamins, minerals,
hormones, ...

Commercialisation: VIROKYL brand to HygiisPharm - France

Normes		Type	Temps de contact
Viricidal	EN 14476 +A2	Human Coronavirus strain 229E Hcov-229E	30s
Bactericidals	EN 1276	Pseudomonas Aeruginosa Staphylococcus Aureus Escherichia Coli Enterococcus Hirae	60s
	EN13697	Pseudomonas Aeruginosa Staphylococcus Aureus Escherichia Coli Enterococcus Hirae	60s
	EN13727	Pseudomonas Aeruginosa Staphylococcus Aureus Escherichia Coli K12 Enterococcus Hirae	5mn
	EN 1500	Vivo	1mn
Fungicidals/ yeastcidals	EN 1650	Candida Albicans	15mn
	EN 13697	Candida Albicans	60mn
	EN 13624	Candida Albicans	60mn

