

## DRUG DELIVERY SYSTEMS

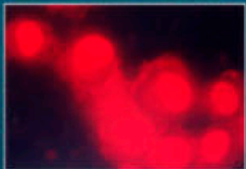
- HYDROPHILIC AND LIPOPHILIC DRUG INCORPORATION
- SUSTAINED DRUG RELEASE
- STEALTH PREPARATION to avoid RES recognition
- TARGETING TO LYMPH
- PHYSIOLOGICAL BARRIER OVERCOMING (blood brain barrier)
- INTERNALIZATION INTO CELLS IN FEW MINUTES
- ENHANCED BIOAVAILABILITY
- MODIFIED VALUES OF PHARMACOKINETIC PARAMETERS
- DIFFERENT ROUTES OF ADMINISTRATION

TRANSDERMAL  
 PARENTERAL  
 OCULAR  
 ORAL

MICROEMULSIONS  
 AND  
 SOLID LIPID NANOPARTICLES (SLN)  
 ARE INNOVATIVE DRUG DELIVERY SYSTEMS (DDS)

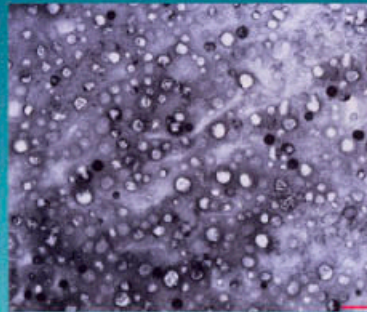
NANOVECTOR TECHNOLOGY  
 IS SUITABLE FOR APPLICATIONS  
 IN FOLLOWING AREAS

PHARMACEUTICAL  
 DIAGNOSTIC  
 VETERINARY  
 AGRICULTURAL  
 SPECIAL FOODS



SLN  
*properties*  
 SOLIDIFIED DROPLETS OF WARM MICROEMULSIONS  
 SPHERICAL SHAPE  
 AVERAGE DIAMETER BETWEEN 70 AND 200 nm  
 INCORPORATION OF DRUG AS AMORPHOUS  
 LIPID BIOCOMPATIBLE MATRIX

MICROGRAPH OF WATER DISPERSED SLN  
 15 MONTHS AFTER HEAT STERILIZATION



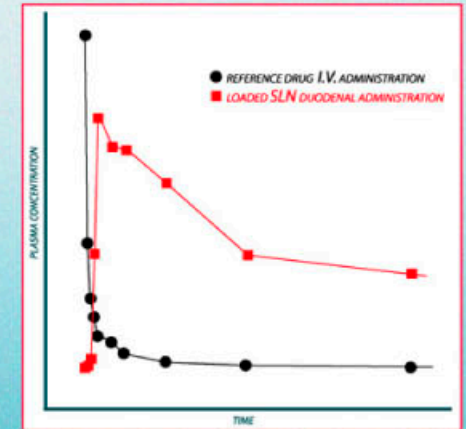
red bar 100µm

MICROGRAPH OF SLN IN PLASMA  
 35 MINUTES AFTER DUODENAL ADMINISTRATION

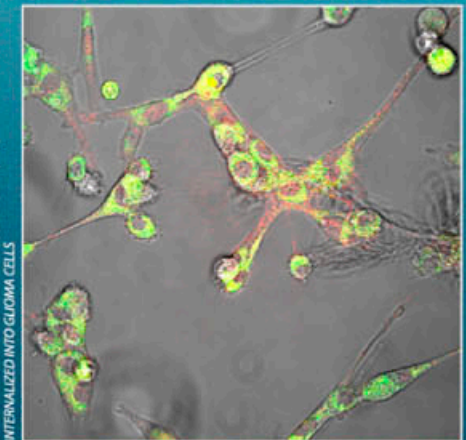


red bar 100nm

MICROEMULSIONS  
*properties*  
 SPONTANEOUS FORMATION  
 CLEAR LIQUID SYSTEMS  
 THERMODYNAMICALLY STABLE  
 DROPLETS ARE USED AS RESERVOIR OF DRUGS

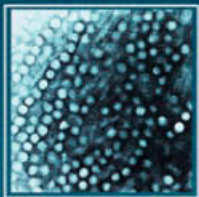


FLEXIBLE COMPOSITION  
 HYDROPHILIC AND LIPOPHILIC DRUG  
 LOW ENERGY REQUIRED  
 NO SOLVENT USE  
 BIOCOMPATIBLE MATRIX CONSTITUENTS  
 FROM PARENTERAL TO ORAL ADMINISTRATION



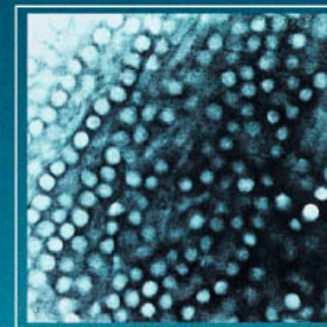
CUMAMIN SLN (FITC) AND DOXORUBICIN SLN (RED)  
 INTERNALIZED INTO GLIOMA CELLS

SIMPLE AND COST EFFECTIVE PROCESS  
 HIGH SUSTAINABLE DEVELOPMENT PROFILE



OUR COMPANY  
IS R&D CONSULTANCY BASED  
TAKING ADVANTAGE  
OF HISTORICAL COOPERATIONS  
AND DEVELOPMENTS  
WITH A WELL ESTABLISHED  
NET OF UNIVERSITIES

NANOVECTOR  
HAS SPECIFIC SKILL  
ON  
MICROEMULSIONS  
AND  
SOLID LIPID NANOPARTICLES  
(SLN)



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