



# ABOUT FORMULEX PHARMA INNOVATION



- ✓ Better bioavailability, stability and efficacy
- ✓ New delivery routes addressing large unmet needs
- ✓ Cheaper and easier commercial manufacturing
- ✓ Quicker and easier regulatory routes

- Formulex is a pioneer in the field of nano-technology and particles engineering drug delivery, located in Weizmann Science Park, Ness Ziona, Israel. With accumulated know-how gleaned from dozens of partnering and contract formulation projects, we cost effectively generate innovative formulation solutions for challengeable projects in diversified fields, such as biopharma, nutraceuticals, and agrochemicals.
- The formulation development is accompanied by full analytical, QA support as well as stability studies.
- We gathered our experience in Formulex and well-known companies and laboratories, such as Perrigo, Teva, KV Pharma, Analyst Research Laboratories, Aminolab, Dr. Fisher, CST and Licored.
- We are an inventive team of 11 employees, three are graduated with Ph.D in chemistry and biology, 4 with Master degree in chemistry, engendering and business administration and one holds BA in chemistry.

# FORMULATION EXPERTISE

Formulex is a well-known and highly experienced CDMO possessing know-how and patented technologies for liquid and solid dosage forms development and production for clinical trials.

Formulex has performed more than a hundred projects for local and international customers in the various pharma fields.



- ✓ Topical and transdermal creams, gels, ointments
- ✓ Injectable micro-emulsions, viscous liquids and powders for reconstitution
- ✓ Oral suspensions and solutions,
- ✓ Granulated formulations,
- ✓ Immediate and extended-release tablets and capsules
- ✓ Enteric-coated and Colon release tablets
- ✓ Stability and solubility improved formulations
- ✓ Rectal and intravaginal formulations
- ✓ Liquid and powder inhalations for nasal and oral administration
- ✓ Fixed doses combinations
- ✓ Drug- device combination

# ANALYTICAL EXPERTISE

Formulex has a well-equipped state of the art analytical laboratory capable of carrying out a full range of physicochemical characterizations, analytical tests, and stability studies:



- ✓ Analytical methods development and qualification
- ✓ Assays and related substances
- ✓ Dissolution and in vitro analysis
- ✓ Testing in bio-relevant gastric & intestinal fluids
- ✓ Particle size analysis
- ✓ Water content determination
- ✓ Residual solvents
- ✓ XRD analysis
- ✓ DSC analysis
- ✓ Imaging (Optic microscopy, SEM, TEM)
- ✓ Ex-vivo membranes permeability using Franz-cells

# CANNABIS PRODUCTS DEVELOPMENT

Formulex has developed more than 16 Cannabinoids medical products by using our patented Solumer™ and generic technologies. Five of these products are in the clinical and commercial stages.

All products development is supported by comprehensive analytical methods: HPLC assays, impurities profile, dissolution tests, particle size, imaging and others.



- ✓ Syrups based on Cannabis oil formulations with variety of viscosity and tastes
- ✓ Oral emulsions with improved bioavailability, stability and taste
- ✓ Oral tablets with improved bioavailability and stability
- ✓ Sublingual tablets to by-pass first pass metabolism and improve bioavailability
- ✓ Chewable tablets with taste masking for pediatric needs
- ✓ Encapsulated cannabis products for better stability and extended release
- ✓ Encapsulated cannabis products for colon delivery
- ✓ Suppository for colon and systemic delivery
- ✓ Topical creams, ointments and lotions
- ✓ Transdermal organogels
- ✓ Combination with other botanicals