
BIOLINEAR

# NanoSpheres™

## Oral Drug Delivery Platform for High and Bulky Dose

## Patent Pending

NanoSpheres™ are BIOLINEAR TECHNOLOGIES INC. new Time Release oral drug delivery technology especially suited for high/bulky dose and/or sustained release applications. NanoSpheres™ are tiny spherical pellets (~0.5 to 1.5 mm diameter) that can be dispensed in a packet or a bottle, loaded in a capsule or pressed into a tablet.

NanoSpheres™ are very easy to swallow – even in large quantities – because of their small, spherical, smooth shape. For oral dosing, the pellets may be sprinkled on food or mixed with water or flavored liquids to form a drinkable oral suspension, which may be ideal for pediatric applications and for patients with swallowing difficulties. Multi-gram dosing is possible with this approach. For low-dose drugs, the NanoSpheres™ may be dispensed in capsules.

Despite their small size, NanoSpheres™ can provide a sustained release profile, up to 24 hours in vitro – even for highly water-soluble drugs. The release profile is adjustable to meet most any dosing requirements. If needed, the taste-masking agents may be incorporated during their production.

## Key Features of NanoSpheres™

- Ideal for high dose (>1-2 grams) drugs
- Applicable for insoluble and highly water soluble drugs, nutraceuticals, and vitamins
- Converts multiple dosing/day to compliance-enhancing
- Once/day format
- Simple manufacturing process
- Manufacturable using conventional equipment
- Low cost of goods
- Patent pending

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### Intended Cannabinoid Applications:

- Creation of Time Release NanoSpheres have countless applications
  - Time Release duration is adjustable to suit desired applications
- Time Release CBD and CBD combinations
- Time Release THC and THC combinations
- NanoSpheres can be loaded into capsules, at desired dose, or pressed into tablets
- NanoSpheres can be packaged into push caps for Time Release beverage applications
- NanoSpheres can be packaged into sachets for addition of Time Release into foods and beverages

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