**New Zealand Pharmaceuticals Ltd**

**Product List**

**Pharmaceuticals & Intermediates**

- **Cholic Acid**
  - Pharmaceutical intermediate: raw material for the production of chenodeoxycholic acid and ursodeoxycholic acid
  - Production of artificial Calculus bovis (bezoar/niu-huang)

- **Dehydrocholic Acid**
  - Digestive aid, hydrocholeretic and diuretic

- **Sodium Dehydrocholate**
  - Digestive aid, hydrocholeretic and diuretic

- **Deoxycholic Acid**
  - Pharmaceutical intermediate: Choleretic and detergent properties

- **Glycocholic Acid, Sodium Salt**
  - Pharmaceutical intermediate: drug and vaccine delivery

- **Methyl Cholate**
  - Intermediate for the synthesis of a range of bile acid derivatives

- **Sodium Cholate**
  - Anti-viral / anti bacterial

- **Sodium Deoxycholate**
  - Pharmaceutical intermediate: drug and vaccine delivery

- **Taurocholic Acid, Sodium Salt**
  - Pharmaceutical intermediate: drug and vaccine delivery

- **Taurodeoxycholic Acid, Sodium Salt**
  - Pharmaceutical intermediate: drug and vaccine delivery

- **Heparin Sodium BP**
  - Blood anticoagulant

- **Sialic Acid**
  - NZP’s sialic acid is used in the production of several neuraminidase inhibitors, glycolipids and other synthetically derived bio-active products.

**Microbiological & Fermentation Media**

**Selective inhibitory agents in bacteriological culture media**

- **Sodium Cholate**
  - Sodium salt of cholic acid

- **Sodium Deoxycholate**
  - Sodium salt of deoxycholic acid

- **Bile Salts No 2**
  - 3:1 mixture of Sodium Cholate : Sodium Deoxycholate

- **Bile Salts No 3**
  - 1:1 mixture of Sodium Cholate : Sodium Deoxycholate

- **Special Bile**
  - Refined bile product containing natural conjugated bile acids

**Nutrients in microbiological and fermentation culture media**

- **Casein Peptone**
  - Pancreatic digestion of New Zealand casein

- **Gelatin Peptone**
  - Hydrolysed gelatin of New Zealand bovine origin

- **Meat Peptone**
  - Ovine- or equine-derived
Dietary Supplements

Actinidin ● Enzyme extracted from kiwifruit for use as a digestive aid

Blackcurrant Extract ● Powders (and juice concentrates) with high anthocyanin content for use in a range of nutraceutical products

*Under the Just The Berries brand  www.justtheberries.co.nz

Bovine Cartilage Extract Powder ● Used in arthritis remedies

L- Carnitine ● Infant milk powder formulations, energy drink and body-building supplement ingredients

Collagen Hydrolysate ● Arthritis remedy, component of weight loss product and moisturizing properties

Chondroitin Sulphate ● Arthritis remedies and preservation of eyesight

Ferritin ● Treatment of iron deficiency (anaemia)

Natural Taurine ● Infant milk formula (makes infant formula more like human milk)
 ● Health tonics & smart drinks

Otheran ● Anti-oxidant and free radical scavenger

D-Pinitol (Inzitol™) ● Possible treatment of hyperglycemia

ProenOthera® ● Anti-oxidant and free radical scavenger

Ovine Placenta Powder ● Extract for cosmetic or health benefits

Sialic Acid ● Potential as a functional food additive

Animal Feed Ingredients

Crude Natural Taurine ● Aquaculture, particularly in shrimp and prawn feeds

Mixed Bile Acids ● Aquaculture (Steroid source for prawn feed ingredients)
 ● Feed ingredient for poultry and pigs

For more information, please visit our website  www.nzp.co.nz
Product List

Specialty Carbohydrates and Derivatives

- **Glucofuranose pentapropanoate**: Pharmaceutical intermediate: synthesis of pharmaceuticals, antibiotics and diagnostics
- **N-Acetyl-D-mannosamine**: Intermediate for the synthesis of several carbohydrate-derived families of biologically active compounds and pharmaceutical candidates, including sialic acid
- **N-Acetyl-D-Galactosamine**: Pharmaceutical raw material: synthesis of pharmaceuticals, antibiotics and diagnostics
- **D-Mannosamine Hydrochloride**: Intermediate for the synthesis of several carbohydrate-derived families of biologically active compounds and pharmaceutical candidates
- **Tetra-O-Acetyl-N-acetyl-D-mannosamine**: Intermediate for the synthesis of carbohydrate-derived biologically active compounds and pharmaceutical candidates
- **Galactosamine Hydrochloride**: Intermediate for the synthesis of several carbohydrate-derived families of biologically active compounds and pharmaceutical candidates
- **D-chiro-Inositol**: Research chemical and pharmaceutical intermediate
- **Sialic Acid**: Pharmaceutical intermediate: synthesis of pharmaceuticals, antibiotics and diagnostics
- **Methyl Sialylate**: Pharmaceutical intermediate: synthesis of pharmaceuticals, antibiotics and diagnostics

Products Under Development

- **Glycocholic Acid**: Pharmaceutical intermediate: drug and vaccine delivery, adjuvant
- **Tauroursodeoxycholic Acid, Sodium Salt**: Drug candidate for neurodegenerative, apoptotic and intestinal disorders
- **N-Propanoyl mannosamine**: A sialic acid precursor used for cell surface engineering
- **Tetraacetyl-2-deoxy-2-phthalimidoglucose (TAPG)**: A protected 2-amino-2-deoxyglucose for synthesis
- **1,2- and 2,3-camphanylidine-my-o-inositol**: Starting material for the synthesis of phosphatidylinositol phosphates and other glycolipids

For more information, please visit our website [www.nzpsynthesis.com](http://www.nzpsynthesis.com)