POLYPHEPANE, A NATURAL ENTEROSORBENT
OF WIDE SPECTRUM OF ACTIVITY

Description
POLYPHEPANE is a natural enterosorbent of plant origin. It includes lignin, which is composed of phenylpropane and hydrocellulose as structural elements. POLYPHEPANE possesses pronounced sorption properties. It adsorbs diverse pathogenic microorganisms and products of their vital functions, as well as heavy metal salts, radionuclides, nitrates, toxins, bile acids, urea, etc.

Technical appraisal and economic benefits
POLYPHEPANE is non-toxic. It is excreted completely and is suitable for long-term administration. The technology of POLYPHEPANE production is simple; it does not require expensive reagents and complex equipment. The feedstock for POLYPHEPANE is production residue, hydrolysis lignin. POLYPHEPANE is one of the cheapest medical products; producers’ price is 7 rubles per 100 g.

Application areas
POLYPHEPANE is designed for the treatment of diseases accompanied by systemic intoxication:
- acute intestinal infections and intestinal dysbacteriosis;
- alcoholic and drug poisoning, drug abuse, toxicomania, and radiotherapy;
- dysgravidism;
- allergic diseases and allergodermatosis;
- chronic liver diseases and renal insufficiency;
- atherosclerosis;
- osteochondrosis;
- dysbolism;
- starvation diets;
- occupational hazard, etc.

Development stage
Since 1996 POLYPHEPANE has been produced on the basis of the Favorsky Irkutsk Institute of Chemistry SB RAS (10 tons per year). Pharmacopoeia article FS 42-2793-97. License No. 64/868/99.

Patent situation
The product is protected by RF patent (1991).

Commercial offers
License sale.

Estimated cost
2 mil rubles.

Contacts
Cand.Sc. Margarita L. Al’pert, Scientific Secretary
A.E. Favorsky Irkutsk Institute of Chemistry, Siberian Branch of the Russian Academy of Sciences
1, Favorsky St., Irkutsk, 664033, Russia
Phone: (3952) 42-59-00
Fax: (3952) 41-93-46
E-mail: admin@irioch.irk.ru
http://www.inchemistry.irk.ru