Journals/Magazines

Aqua Farm News

1995

How drugs from marine sources are isolated and produced

Aquaculture Department, Southeast Asian Fisheries Development Center

Southeast Asian Fisheries Development Center, Aquaculture Department (1995). How drugs from marine sources are isolated and produced. Aqua Farm News, 13(5), 5.

http://hdl.handle.net/10862/2481

Downloaded from http://repository.seafdec.org.ph, SEAFDEC/AQD's Institutional Repository

How Drugs from Marine Sources ARE ISOLATED AND PRODUCED

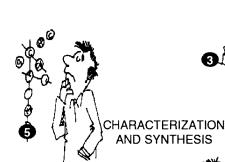


PRELIMINARY ISOLATION Drug suggested by analogy or general screening program

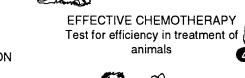
SCREENING AND DISCOVERIES Unique or potentially useful biological activity is found

> SOURCE MATERIALS Obtain enough material to isolate and characterize active compound(s)





MASS SCALE SYNTHESIS





PHARMACOLOGICAL STUDIES Testing for drug activity and safety

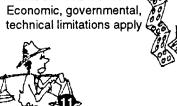




GOVERNMENTAL APPROVAL

- Disclosure of complete drug source and manufacturing information
- · Preclinical results disclosed
- Future research plans and other supporting data

MASS PRODUCTION



MARKETING PROCEDURES Economic, governmental, technical limitations apply

CLINICAL EVALUATION

- Testing with human volunteers to determine metabolism, absorption and elimination, side effects, safe dose range, preferred method of administration. Obtain therapeutic index (value versus hazards).
 - Initial diagnosis test
 - Outside controlled tests

Illustrated by I. Tendencia. Reference: MT Doig III, DF Martin, GM Padilla, 1973. Marine bioactive agents: chemical and cellular correlates, p. 6. In: DF Martin and GM Padilla (eds). Marine Pharmacognosy Action of Marine Toxins at the Cellular Level. Academic Press, New York, 317 p.