## Development of Single-CD Linux" KNOPPIX / IPv6" with International Accreditation IPv6 Ready Logo Acquired

The National Institute of Advanced Industrial Science and Technology (AIST) has developed a next generation internet infrastructure, IPv6 Linux "KNOPPIX / IPv6" which can be booted with a single CD (compact disk), in collaboration with the Alpha Systems, CO., Ltd. (Alpha Sys.) and the WIDE Project.

The "KNOPPIX / IPv6" was produced on the basis of "KNOPPIX Japanese Edition" which had been maintained by the AIST for Linux distribution and incorporated by Alpha Sys. with the IPv6 protocol stack which had been developed by the WIDE Project.

The "KNOPPIX / IPv6" has two functions: host to build up an IPv6 system in any PC with a single CD, and rooter to link up PC network. The operation of these functions has been verified, and the International Accreditation Organization IPv6 Ready Logo Committee issued the international linkup certificate IPv6 Ready Logo for Linux distribution first in the world, as of August 29, 2004.

The international recognition of IPv6 compatible function of "KNOPPIX / IPv6", makes it possible for users to utilize it securely, and to create products customized on the basis of "KNOPPIX / IPv6" owing to the mutual certification for other IPv6 devices. Since the "KNOPPIX / IPv6" consists of free software, it is possible to add original IPv6 compatible applications so long as the license agreement is observed.



Fig. Label design of "KNOPPIX / IPv6".

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## Red color materials containing gold nanoparticles

Harmless and highly light-resistant color materials were developed

Red color materials containing gold nanoparticles and natural polymers such as gelatin and agar were obtained by the treatment of the polymers with a chloroauric acid solution and a reductant solution successively. Dissolution of the materials in hot water gave red-colored gold hydrosols containing gold nanoparticles. These materials would serve as harmless and highly light-resistant red color materials for foods.

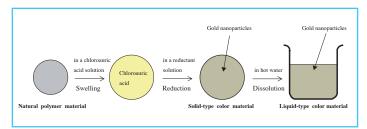


Fig. 1 Preparation of red color materials.



Fig. 2 Solid- and liquid-type color materials using gelatin.

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