

CHAPTER VI

CONCLUSION

The reaction of extracts from noodles, from seasonings and from noodles cooked with seasonings with nitrite under acid condition in this study resulted in formation of direct-acting mutagen. The mutagens formed in this system were classified as both base-pair substitution and frameshift mutation types. This indicated that instant noodle might serve as a potential substrate for nitrosation and contributed to mutagen formation. The formation of a direct-acting mutagen in the instant noodle-nitrite reaction, demonstrated in this study, may have important implications for food safety, since human could be exposed to mutagen of this type, either preformed in nitrite containing food or formed *in vivo* by nitrosation following ingestion of instant noodle.