

No.177 (1/6)

CERTIFICATE OF ACCREDITATION

Name of Laboratory : Food Safety Center of Pulmuone Holdinga Seoul Office Co., Ltd.

Representative : Nam, Seung-Woo

Address of Headquarters : 724, Suseo-dong, Gangnam-gu, Seoul, Korea

Address of Laboratory : Seodaemun P.O.Box 146, Seodaemun-gu, Seoul, Korea

Duration : July 31, 2012 ~ July 30, 2016

Scope of Accreditation

(Scope of Accreditation is described in the accompanying Annex)

This is to certify that the above Laboratory is accredited as Testing Laboratory in accordance with the provisions of Article 23 of the National Standards Act.

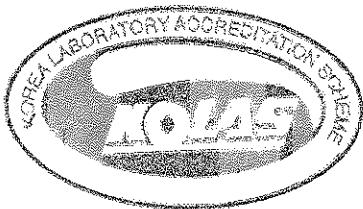
These criteria encompass the requirements of ISO/IEC 17025 : 2005.

July 31, 2012

A handwritten signature in black ink, appearing to read "Seo, Hyang Woo".

Administrator,

Korea Laboratory Accreditation Scheme(KOLAS)

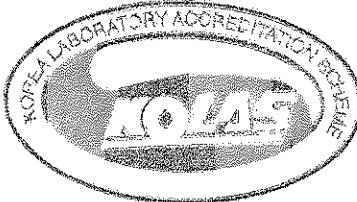


No.177 (2/6)

2. Chemical test

2.017 Food

| Test method | Standard designation | Test range or Limits of detection |
|--|--|--|
| Bulletin of Korea Food & Drug Administration No. 2012-1 Korean Food Standard Codex | 10. General Method | |
| | 1. Test method for general compounds | |
| | 10.1.1.1.1) Moisture (loss on drying) | (0~90) g/100 g |
| | 10.1.1.2) Ash | (0~10) g/100 g |
| | 10.1.1.3.1) Total Nitrogen and Crude Protein | (0~50) g/100 g |
| | 10.1.1.3.3) Amino Acids | (0~1000) mg/100 g |
| | 10.1.1.5.1) Crude Fat | (0~30) g/100 g |
| | 10.1.1.5.3.1) Acid Value | (0~10) |
| | 10.1.1.5.3.3) Iodine Value | (0~10) meq/kg |
| | 10.1.1.5.3.5) Peroxide Value | (0~10) |
| | 10.1.1.5.4) Fatty Acids | (0~50) g/100 g |
| | 10.1.1.5.5) Cholesterol | (0~10) g/100 g |
| | 10.1.1.4.1.4) Qualitative and Quantitative of Sugar | (0~10) g/100 g |
| | 10.1.1.6) Calculation of Calories | - |
| | 10.1.2.2.1) vitamin A by HPLC | (0~1000) µg/100 g |
| | 10.1.2.2.4) vitamin C by HPLC | (0~1000) mg/100 g |
| | 2. Test method for Preserves | |
| | 10.2.1.1) Dehydroacetic acid, Sorbic acid, Benzoic acid, Paraben-methyl, ethyl, butyl and propyl | (0~2.0) g/kg |



No.177 (3/6)

2.017 Food

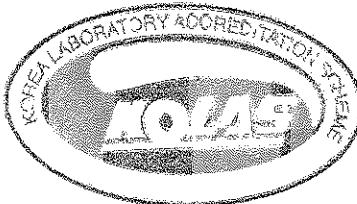
| Test method | Standard designation | Test range or Limits of detection |
|--|--|-----------------------------------|
| Bulletin of Korea Food & Drug Administration No. 2012-1 Korean Food Standard Codex | 4. Test method for pesticides residue in foods 4.1.2) Simultaneous test of pesticides residue Acetochlor, Alachlor, Aldicarb, Azoxystrobin, a-BHC, b-BHC, r-BHC, d-BHC, Bifenthrin, Boscalid, Butachlor, Cadusafos, carbendazim, Chlorfenapyr, Chlorothalonil, Chlorpyrifos, Chlorpyrifos-Methyl, Cyfluthrin, Cyhalothrin, Cypermethrin, Cyprodinil, Deltamethrin, Diazinon, Dichlorvos (DDVP), Dicofol, Diethofencarb, Dimethoate, Dimethomorph, Diniconazole, Endosulfan-a, Endosulfan-b, Endosulfa-sulfate, EPN, Ethafluralin, Ethoprophos, Fenarimol, Fenazaquin, Fenitrothion, Fenobucarb, Fenpropathrin, Fenthion, Fenvalerate, Fipronil, Fludioxonil, Flufenoxuron, Fluquinconazole, Flutolanil, Folpet, Fosthiazate, Heptachlor, Hexaconazole, Indoxacarb, Imazalil, Imidaclorprid, Iprobenfos, Iprodione, Isoprocarb, Isoprothiorane, Kresoxim-Methyl, Linuron, Lufenuron, Mepanipyrim, Methidathion, Methoxychlor, Myclobutanil, Nuarimol, Oxadiazone, Oxyfluorfen, Paclobutrazole, Parathion, Parathion-Methyl, Pendimethalin, Permethrin, Phenthroate (PAP), Phosphamidon, Pirimicarb, | (0 ~ 10) mg/kg |



No.177 (4/6)

2.017 Food

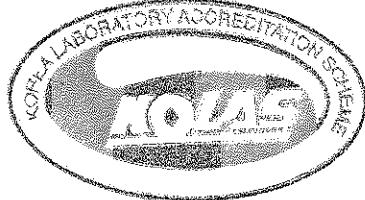
| Test method | Standard designation | Test range or Limits of detection |
|--|--|-----------------------------------|
| Bulletin of Korea Food & Drug Administration No. 2012-1 Korean Food Standard Codex | Procymidone, Prothiofos, Pyrazophos, Pyridaben, Pyrimethanil, Quintozene, Tebufenpyrad, Tebupirimfos, Teflubenzuron, Terbufos, Tetradifon, Tolclofos-Methyl, Tolyfluanid, Triazophos, Tricyclazole, Triflumizole, Vinclozolin | (0~10) mg/kg |
| | 7. Test method for harmfulness compounds in food | |
| | 10.7.1) Test method for heavy metals by ICP method (Ca, Fe, Na, Cu, Mg, Mn, K, Ni, Zn, As, Cd, Pb) | (0~10) mg/kg |



No.177 (5/6)

2.021 Water

| Test method | Standard designation | Test range or Limits of detection |
|--|---|--------------------------------------|
| Bulletin of Ministry of Environment No. 2011-21 | Standard Methods for the Examination of Drinking Water Pollution | |
| | ES 05401.2a Cu - ICP Method | |
| | ES 05402.1a Pb - ICP Method | |
| | ES 05403.2a Mn - ICP Method | |
| | ES 05405.1a As - ICP Method | |
| | ES 05408.2a Zn - ICP Method | |
| | ES 05410.3 Fe - ICP Method | |
| | ES 05411.2 Cd - ICP Method | (0~10) mg/kg |



No.177 (6/6)

9. Biological test

9.002 Microbiological test

| Test method | Standard designation | Test range or Limits of detection |
|--|--|--|
| Bulletin of Korea Food & Drug Administration No. 2012-1 Korean Food Standard Codex | 10. General Method 3. Test method for microbiological | |
| | 10.3.5.1) Total colony count | (0~10 ⁹) CFU |
| | 10.3.6) Examination of canned food | Enumeration |
| | 10.3.7.1) Total coli forms | Enumeration |
| | 10.3.7.2) Enumeration Total coli forms | (0~10 ⁵) CFU |
| | 10.3.8.1) E.coli | Enumeration |
| | 10.3.8.2) Enumeration E.coli | (0~10 ⁵) CFU |
| | 10.3.9.1) Lactic acid bacterial count | (0~10 ⁹) CFU |
| | 10.3.10) Yeast and Mold | Enumeration |
| | 10.3.11) Salmonella spp | Enumeration |
| | 10.3.12.1) Staphylococcus aureus | Enumeration |
| | 10.3.15) Listeria monocytogenes | Enumeration |
| | 10.3.16) E.coli O157:H7 | Enumeration |
| | 10.3.18.1) Bacillus cereus | Enumeration |

End.