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Dear Sir/Madam

We are pleased to inform to you that we study the efficacy of “Samurai Ionizer” (IWS1 and ISI-12D3) to inactivate highly pathogenic avian influenza H5N1. The residue of the virus (after directly applied “Samurai Ionizer” onto the virus containing allantoic fluid) is checked by virus isolation based on method of Office International des Epizootics (OIE), inoculation into allantoic sac of chicken embryonic eggs, hemagglutination test, and hemagglutination-inhibition test. It is found that “Samurai Ionizer” (IWS1 and ISI-12D3) can inactivate the virus, $10^{5.8}$ EID₅₀ in 1.0 ml of allantoic fluid completely within 10 minutes.

Regards,



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Details of the test

“Samurai Ionizer” (IWS1 and ISI-12D3) were tested for their inactivation efficacy of highly pathogenic avian influenza (HPAI) H5N1. The test was performed by direct releasing the ion from “Samurai Ionizer” onto $10^{5.8}$ EID₅₀ in 1.0 ml of virus containing allantoic fluid. The ion was directly released 10^9 ion/second on the virus at 1 inch in depth. The virus in allantoic fluid was collected by swabbing and then re-isolated in chicken embryonic eggs at 0, 5, 10, 15, 20, 25, 30 minutes after application of “Samurai Ionizer”. The virus was tested by hemagglutination test and hemagglutination- inhibition test.

Result

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|-----------------|---|
| Samurai Ionizer | The most minimal minute that the equipment could completely inactivated the HPAI H5N1 virus, $10^{5.8}$ EID ₅₀ in 1 ml allantoic fluid, when applied the equipment 1 inch above the fluid. |
| IWS1 | 10 minutes |
| ISI-12D3 | 10 minutes |

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