

ANALYTICAL REPORT

Client: Stephan Karl
James Cook University
88 Macgregor Rd
Smithfield QLD 4878

Your Reference: Long Lasting Insecticidal Net for Total Fluorine Analysis

SGS Report Number: SP035171

Date of Receipt of Samples: 09/05/2022

Sample Description: 12 net samples individually wrapped in aluminium foil

The samples were analysed in accordance with your instructions. The results and associated information are contained in the following pages of the report. Should you have any queries regarding this report please contact the undersigned.



Reported by: Dr Tracey Yeung

Date: 18/05/2022



Report authorised by: Dr Peter Novella

Date: 18/05/2022

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Background:

SGS Sydney was requested by Stephan Karl of James Cook University to analyse 12 net samples for total fluorine. The samples were received on 09/05/2022 and logged in with the following laboratory reference numbers:

Table 1: Sample Information

SGS ID	Client ID	Year of Manufacture
SP035171-1	PermaNet 2.0 Long Lasting Insecticidal Net 1	2008
SP035171-2	PermaNet 2.0 Long Lasting Insecticidal Net 2	2008
SP035171-3	PermaNet 2.0 Long Lasting Insecticidal Net 3	2010
SP035171-4	PermaNet 2.0 Long Lasting Insecticidal Net 4	2010
SP035171-5	PermaNet 2.0 Long Lasting Insecticidal Net 5	2012
SP035171-6	PermaNet 2.0 Long Lasting Insecticidal Net 6	2012
SP035171-7	PermaNet 2.0 Long Lasting Insecticidal Net 7	2015
SP035171-8	PermaNet 2.0 Long Lasting Insecticidal Net 8	2015
SP035171-9	PermaNet 2.0 Long Lasting Insecticidal Net 9	2017
SP035171-10	PermaNet 2.0 Long Lasting Insecticidal Net 10	2017
SP035171-11	PermaNet 2.0 Long Lasting Insecticidal Net 11	2019
SP035171-12	PermaNet 2.0 Long Lasting Insecticidal Net 12	2019

Methods Used:

A portion of each sample was completely combusted in an oxygen bomb. The resulting combustion products were diluted with water (Type I) and the concentration of fluorine was analysed by ion chromatography.



Analytical Results:

Table 2: Total Fluorine Analysis Results

SGS ID	Fluorine	Units
SP035171-1	4300	mg/kg
SP035171-2	3700	mg/kg
SP035171-3	2100	mg/kg
SP035171-4	3100	mg/kg
SP035171-5	3000	mg/kg
SP035171-6	2700	mg/kg
SP035171-7	120	mg/kg
SP035171-8	68	mg/kg
SP035171-9	37	mg/kg
SP035171-10	24	mg/kg
SP035171-11	35	mg/kg
SP035171-12	5.2	mg/kg

Opinions and Interpretations: N/A