

ENPHO Body Belt Research Results from one of the research conducted by Environment & Public Health Organization (ENPHO) -Nepal

ENPHO – an NGO working in water and sanitation sector since the past 27 years have been providing necessary technical assistance to UNICEF through building capacity of field workers on Water Quality testing, and monitoring and quality assurance of water quality testing activities.

In water quality testing component, UNICEF planned to conduct water quality testing using Millipore bacteriological test kit and Arsenic test kit (Quick Rapid Arsenic Test Kit) for two critical health parameters– *Escherichia coli* (*E. coli* or EC) and Arsenic respectively. ENPHO Lab had carried out pre-testing of the water quality testing kit.

Here is one of the data that shows the comparison of absolute difference in CFU count using ENPHO Body belt vs Standard Method.

Chromocult Agar with Body Belt Incubation vs. the Standard Method

In the case of comparing Chromocult Agar with ENPHO Body Belt Incubation against the standard method, the result obtained was almost similar to the previous case. The overall observation showed that a higher portion belonged to the category of lower difference while a smaller number of samples belonged to the category of higher difference.

Table: Overall comparison of absolute difference in CFU count

Absolute Difference in CFU count	Standard and Chromocult with Body Belt		Standard and MICS	
	Number of samples	%	Number of samples	%
0	42	42.0	43	43.0
1-10	50	50.0	44	44.0
11 to 100	8	8.0	13	13.0
>100	0	0.0	0	0.0
Total	100	100	100	100