

Abstracts in this issue contain only abstracts published in the Environmental Health Sciences Research Institute's Environmental Health Sciences (EHS) journal.

Environmental Health Sciences Research Institute, Environmental Health Sciences

Environmental Health Sciences Research Institute, Environmental Health Sciences
Environmental Health Sciences Research Institute, Environmental Health Sciences

INTRODUCTION

Aquatic fisheries play a crucial role in sustaining the livelihoods of coastal communities by providing food security and nutrition.

However, anthropogenic activities that impact coastal ecosystems can have detrimental effects on both fishing practices and the well-being of the population reliant on fish from these areas.

Therefore, this study identifies emerging contaminants (ECs) in fish (n = 20), water (n = 20), and sediment samples (n = 20) collected in the Laguna de Cacaigua region in Manzanillo, Baja California Sur.

METHODOLOGY



Target screening was performed using liquid chromatography-coupled to mass spectrometry (LC-MS/MS). The MS parameters and the identification of the evaluated analytes are presented in the QR code.

RESULTS

Sulfamonomide	Sulfamoxazole	Sulfamethoxazole
Cloxacillin	Trimethoprim	Amoxicillin
Cefixime	Nitazoxanide	Furazolidone
Roxithromycin	Cloxacillin	Cefixime
Meropenem	Amoxicillin	Cloxacillin
Ceftriaxone	Moxifloxacin	Clarithromycin
Amoxicillin	Trimethoprim	Trimethoprim
Cloxacillin	Amoxicillin	Propofol
Trimethoprim	Cloxacillin	Clarithromycin and
Moxifloxacin	Propofol	Alprazolam
Cloxacillin	Rifampicin	Methylphenidate

ppb

All samples showed the highest incidence of ECs in the water (21 identified).

Cloxacillin (n = 20)	Cefixime (n = 20)	Cloxacillin (n = 20) - 0.06
Trimethoprim (n = 20)	Sulfamonomide (n = 20)	

ppb/g

Cloxacillin (n = 20) - 0.07	Amoxicillin (n = 20) - 0.04
Cefixime (n = 20) - 0.06	Cloxacillin (n = 20) - 0.06
Cloxacillin (n = 20) - 0.06	Cloxacillin (n = 20) - 0.06

ppb/g

Nitazoxanide (n = 20)	Cloxacillin (n = 20)
Cloxacillin (n = 20) - 0.06	Sulfamoxazole (n = 20) - 0.06

CONCLUSION

The screening method used was considered satisfactory, as, in addition to confirming the presence of ECs, it allowed observing their occurrence in different environmental matrices.