

IC Application Note No. C-92

Title: Amines in Fish

Summary: Determination of dimethylamine (DMA), trimethylaminoxide (TMAO), trimethylamine (TMA), putrescine, cadaverine and histamine in a fish sample using cation chromatography with direct conductivity detection.

Sample: Fish (fresh plaice)

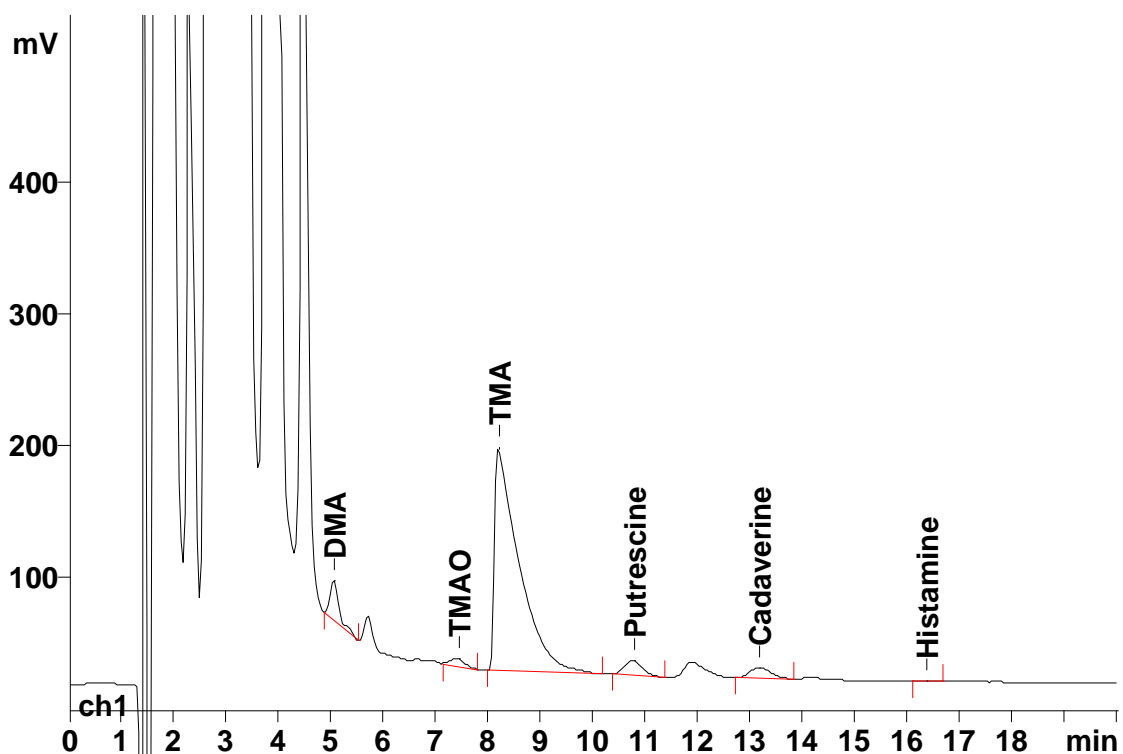
Sample Preparation: 5 g sample homogenized in 50 mL of 0.1 mol/L acetate buffer (pH = 4.8), centrifuge and filter (0.45 µm) prior to injection

Column: 6.1010.220 Metrosep C 2 – 150

Eluent: 6.0 mmol/L nitric acid

Flow: 1.0 mL/min

Injection Volume: 20 µL



Results:	DMA-N mg/kg	TMAO-N mg/kg	TMA-N mg/kg	Putrescine-N mg/kg	Cadaverine-N mg/kg	Histamine-N mg/kg
Mean of 5 injections	10.37	3.78	129.70	7.16	5.39	n.d.