Formaldehyde-DNPH from Diffusive Badge Monitor

ACE® Ultra-inert UHPLC & HPLC Columns

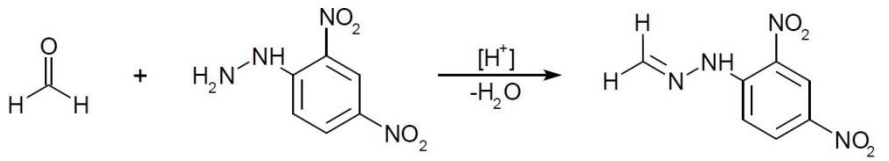
Application #**AN4900**

Conditions

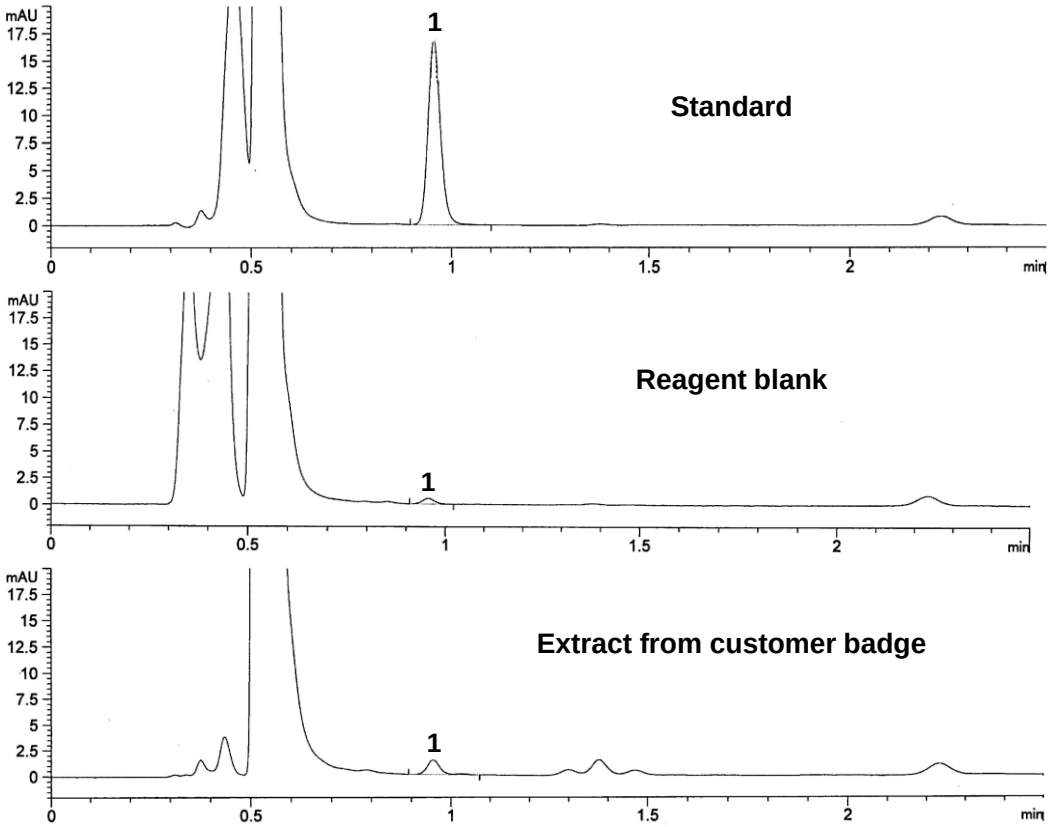
Column:	ACE UltraCore 2.5 SuperC18
Dimensions:	50 x 4.6 mm
Part Number:	CORE-25A-0546U
Mobile Phase:	MeOH:H_2O (60:40 v/v)
Flow Rate:	1.5 mL/min
Injection:	5 µL
Detection:	UV, 355 nm
Sample:	Formaldehyde-DNPH standard, reagent blank and customer badge samples. The badge was extracted with 1ml of acetonitrile and shaken for 30 minutes, followed by addition of 1ml 0.05M potassium acetate.

Formaldehyde is a potential contaminant in indoor working environments and a possible human carcinogen. Personal air samplers worn as badges are used to monitor exposure to formaldehyde. These badges contain acid and DNPH (dinitrophenylhydrazine) which reacts with formaldehyde as shown.

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Formaldehyde DNPH Formaldehyde-DNPH (1)



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