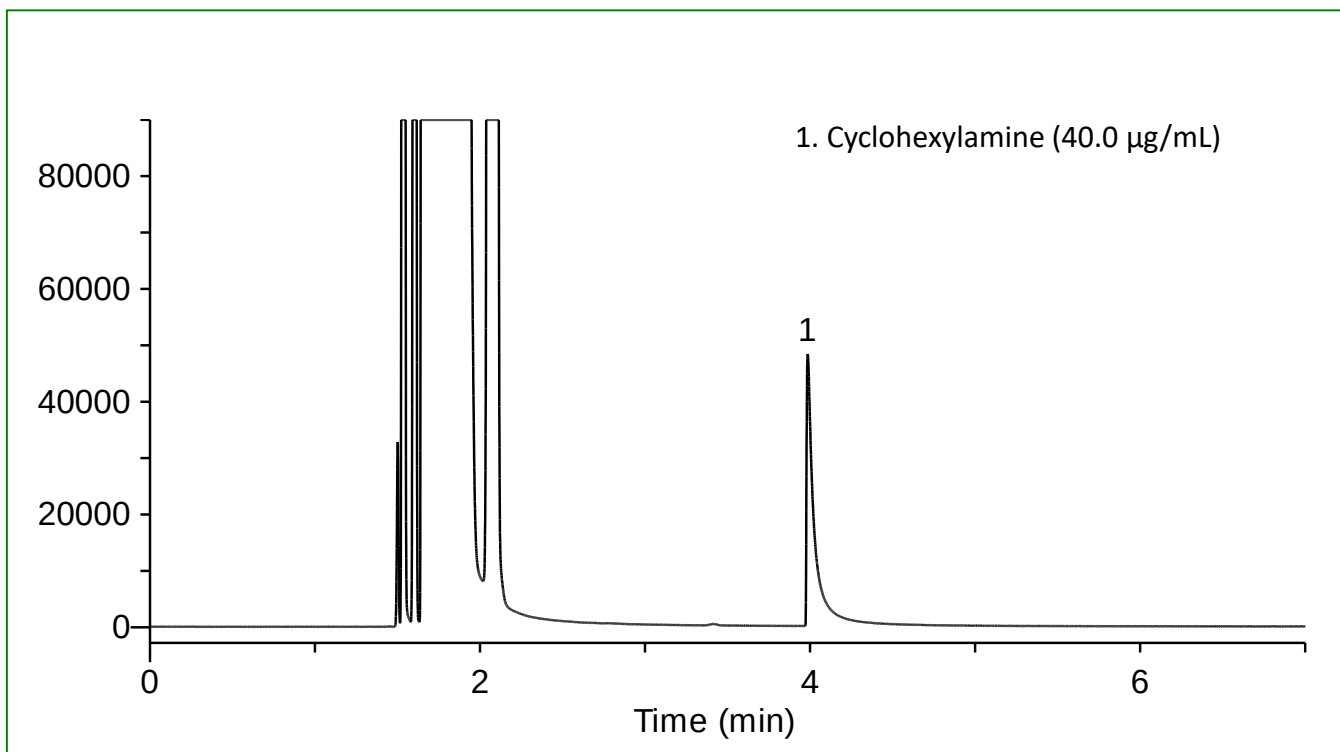


Acetohexamide is used to lower blood sugar levels and is used to treat diabetes.

In this study, cyclohexylamine, a related substance, was analyzed as a purity test of acetohexamide.

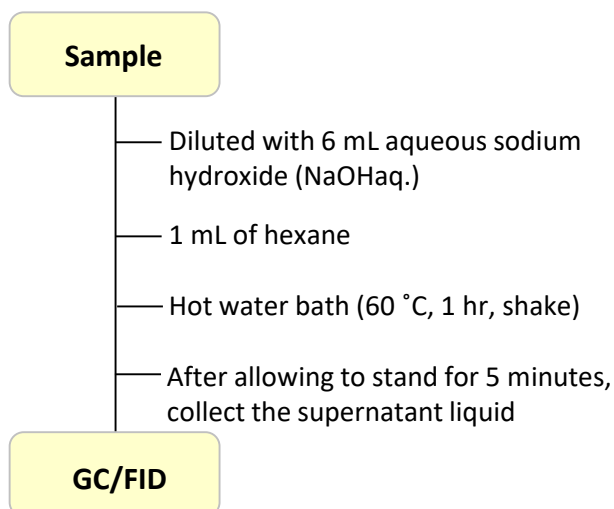
The relative standard deviation of peak area and number of theoretical plates for cyclohexylamine was confirmed, and excellent results were obtained.

Example: Measurement of standard



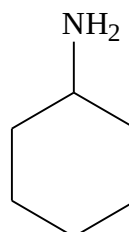
Conditions

System	: GC - FID
Column	: InertCap 1 0.53 mm I.D. x 30 m df = 1.50 µm
Col. Temp.	: 90 °C
Carrier Gas	: He 35 kPa
Injection	: Split flow 17 mL/min 150 °C
Detection	: FID Range 10 ⁰ 210 °C
Sample Size	: 2.0 µL

Example: Pretreatment of standard

A 0.01 g sample was made up to 10 mL with 0.5 mol/L NaOHaq.

Take 0.33 mL of the diluted aqueous solution and make it to 50 mL with NaOH aq.

Cyclohexylamine

Structures created using Chemistry 4-D Draw which is provided by ChemInnovation Software, Inc.

Relative standard deviation**Repeatability of peak area and number of theoretical plates ($n = 6$)**

	Peak areas	Number of theoretical plates
First	134640	72096
Second	136256	70487
Third	139140	70750
Fourth	137031	70589
Fifth	135420	70593
Sixth	136488	69826
Mean	136496	70724
SD	1545	746
RSD (%)	1.13	1.05

GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

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