

HIEMS

THE ART OF VODKA · LABORATORY VERIFIED

Remarkably clean. Measurably pure.

HIEMS was analysed by an independent university laboratory side by side with five internationally acclaimed ultra-premium vodkas. Every sample was screened for 43 volatile congeners — every trace compound other than ethanol.

42 / 43

congeners **below the limit of detection**

0

methanol, fusel alcohols, esters or acids detected

3.8 mg/L

acetaldehyde, **below the EU limit** and human perception



PURITY · INDEPENDENT GC-FID / GC-MS ANALYSIS

Quality matters as much as taste.

Six vodkas, 43 compounds, one question: what is left in the glass besides pure spirit? For HIEMS, the answer is a single trace — nothing more.

THE SCREEN

Compound families tested in HIEMS.

18

Alcohols

NONE FOUND

20

Esters & acids

NONE FOUND

5

Carbonyls

ONE TRACE

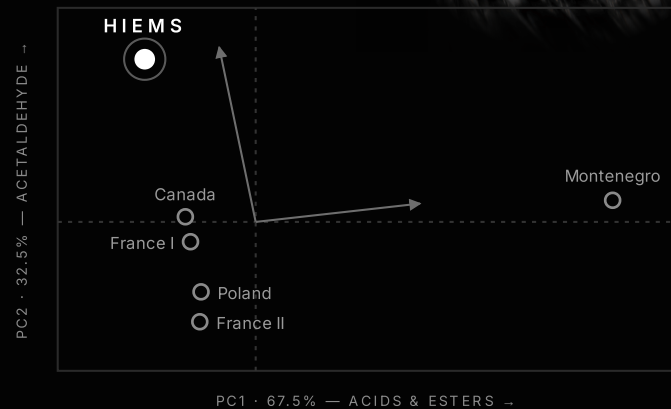
DETECTED CONGENERS

Volatiles above detection limit, per vodka; benchmarks by country of origin.

Montenegro	● ● ●	3
Poland	● ● ○	2
Canada	● ● ○	2
France I	● ● ○	2
France II	● ○ ○	1
HIEMS	● ○ ○	1

CHEMICAL FINGERPRINT · PCA

PCA map of all six volatile profiles.



HIEMS sits furthest left on PC1 — the lowest acid-and-ester load of the set. Its only separation, on PC2, is a single acetaldehyde trace below the EU limit and imperceptible to the palate.

ACETALDEHYDE IN CONTEXT · MG/L PURE ALCOHOL



HIEMS

Slovak vodka crafted without compromise.

Source: Test Report No. 2934, Dept. of Food Analysis and Nutrition, University of Chemistry and Technology, Prague (June 2026). Six commercially available vodkas, 0.7 L original packaging. GC-MS identification (HP-INNOWAX), GC-FID quantification. Values in mg/L pure ethanol (a.a.); LOD 0.3, LOQ 1.0. EU limit per Reg. (EU) 2019/787. PCA on autoscaled data; <LOD = LOD/2, <LOQ = (LOD+LOQ)/2. The laboratory classified all analysed samples as ultra-premium vodkas.

Statistics and analysis by seidian.com

HIEMS.WORLD

MODRÝ STROM DISTILLERY
SLOVAKIA