

How the new GA winePROOF analysis method works



GA winePROOF authenticates the contents of the bottle down to wine AND vintage level.

Step 1: A small access to the wine is created using a specially developed laser system. The cork and the capsule remain untouched.

Step 2: Immediately after taking a 1mL wine sample, the laser access is sealed with glass and a medical polymer.

Step 3: A precisely defined mix of substances is added to the wine sample, the profile of which is uniquely altered by each wine and is like an individual fingerprint.

Step 4: The profile of the wine (fingerprint) is measured using our specially developed method.

Step 5: The measured wine profile is compared with the wine profiles in the profile reference library (fingerprint database) using AI and the Authenticity Score (match with reference profile) is determined. The Authenticity Score is shown on the Authentication Certificate.

Step 6: The blockchain-secured authentication certificate can be read with an app from the NFC tag (GA Safety Tag), which is attached to every bottle whose contents have been authenticated with GA winePROOF.

The GA Safety Tag fulfils the following functions: electronic passport of the bottle, access to the authentication certificate, covering the locked laser access, opening detection, tamper detection.