

## PT 18: Spirits

### Details of the program:

- Proficiency testing scheme created in 1990
- **110 registered laboratories from 28 countries**
- **PTS accredited by COFRAC**
- 10 rounds per annual series
- The time for analysis is 4 weeks
- Samples are shipped via express carrier around the 15th of the month.



### Schedule:

DATE	CODE	MATRIX	VOLUME
September	1118	Cream liquor	750 ml
October	1618	Pommeau	750 ml
November	0418	Rum	750 ml
December	0818	Stone fruits « eau-de-vie »	750 ml
January	1418	Armagnac	750 ml
February	2018	Aromatised Vodka	750 ml
March	0518	Brandy	750 ml
April	0118	Whisky	750 ml
May	2518	Génépi	750 ml
June	2818	Wine spirit	750 ml

### ANALYTES

The list of analytes below varies according to the nature of the sample

#### Physical analysis:

Relative density, Dry extract, Optical density (280, 420, 430, 445, 520, 530, 620 nm and variable), Turbidity, tannin, Brix degree, Refractive index, Conductivity, Ashes, Carbon13, Carbon14, Oxygen 18, Isotopique report  $^{18}\text{O}/^{16}\text{O}$  and  $^{13}\text{C}/^{12}\text{C}$  <sup>NA</sup>,

**Sugars:** Total Sugars, Glucose + Fructose + Sucrose, Glucose <sup>NA</sup>, Fructose <sup>NA</sup>, Sucrose <sup>NA</sup>, Lactose<sup>NA</sup>, Maltose <sup>NA</sup>, Glycerol <sup>NA</sup>

#### Inorganic compounds

**Cations:** Lead, Calcium, Copper, Iron, Potassium, Zinc, Magnesium

**Other Compounds:** Total sulfur dioxide

#### Volatile compounds:

**Alcohols:** Alcoholic strength (real and crude), Methanol, Propene-2-ol-1, Butanol-2, Propanol, isobutanol, Butanol-1, Methyl-2-butanol, Methyl-3 butanol, Hexanol, cis-3-hexenol, phenyl-2-ethanol, Isopentanol

**Esters:** Ethyl acetate, Ethyl lactate, Ethyl butyrate, Ethyl caprylate, Ethyl caprate, Diethyl succinate, Ethyl laurate, Ethyl palmitate, Ethyl formate, Isoamyl acetate, Ethyl caproate, Ethyl carbamate, sum of esters, 2-Phenyl Ethyl acetate <sup>NA</sup>

**Organic acids:** pH, Total acidity, Fixed acidity, Volatile acidity, Hydrogen cyanide, Glycyrrhizic acid, Cyanhydric acid

**Other compounds:** Acetaldehyde, Acetal, Isobutanol, Furfural, Total aldehydes, Sum of volatiles, N-nitrosodimethylamine <sup>NA</sup>, H.M.F (hydroxymethylfurfural), 5-Methyl-furfural

#### Flavourings (depending on the matrix):

Vanillin, Anethole, cis-anethol <sup>NA</sup>, trans-anethol <sup>NA</sup>, Chalcones, Anisole <sup>NA</sup>, Anisaldehyde <sup>NA</sup>, Estragole<sup>NA</sup>, Thuyone, beta-asarone <sup>NA</sup>, alpha-asarone <sup>NA</sup>, Geraniol <sup>NA</sup>, d-limonene <sup>NA</sup>, Ethyl 2-methylbutanoate <sup>NA</sup>, Ethyl 3-methyl butanoate <sup>NA</sup>, Linalol <sup>NA</sup>, Terpinene-4-ol <sup>NA</sup>, alpha-ionone <sup>NA</sup>, beta-ionone <sup>NA</sup>, beta-damascenone <sup>NA</sup>, 1,1,6-trimethyl-1,2-dihydronaphthalene, isoeugenol <sup>NA</sup>, Eugenol <sup>NA</sup>, Furanol <sup>NA</sup>, Maltol <sup>NA</sup>, cis-3-methyl-4-octanolide <sup>NA</sup>, trans-3-methyl-4-octanolide <sup>NA</sup>, Guaiacol <sup>NA</sup>, Methylguaiacol <sup>NA</sup>, o-Cresol <sup>NA</sup>

NA \*: Not accredited parameter

Note: Matrices and analytes may be changed or removed for technical or scientific reasons.

Please refer to current application form available in your member area ([www.bipea.org](http://www.bipea.org)).



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