



**Asia-Pacific  
Economic Cooperation**

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**2017/SOM2/SCSC/WRF/028**

## **Roundtable Responses: Wine Testing Laboratories - Russia**

Submitted by: Russia



**7<sup>th</sup> Wine Regulatory Forum  
Ha Noi, Viet Nam  
11-12 May 2017**



APEC Wine Regulatory Forum

May 11-12, 2017 • Ha Noi, Viet Nam

## Russian Federation: wine testing

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Session 6: Roundtable “To what Standard are the Wine Laboratories involved in Wine Import and Export Testing in your Economy Accredited”  
National Convention Center”  
May 12, 2017

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## Accreditation and function of testing laboratories

- National accreditation body of the Russian Federation:  
Federal Service for Accreditation (RusAccreditation) - <http://www.fsa.gov.ru>
- Accreditation of an laboratory is necessary only for the performing of work in the field of confirmation of compliance
- For activity implementation in the field of confirmation of wine compliance the scope of accreditation of laboratory should include wine, analysis methods which extend on wine and alcoholic products as well as links to relevant legislative documents

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## Accreditation and function of testing laboratories: basic documents

- Accreditation and function at the national level in accordance with the Interstate Standard GOST ISO/IEC 17025-2009
- Acts of the Eurasian Economic Union (EAEU)
- Federal Laws of the Russian Federation (basic law – “On accreditation in National System of Accreditation” of December 28, 2013, # 412-ФЗ)
- Decrees of the President of the Russian Federation (basic decree – “On Unified National System of Accreditation” of January 24, 2011, # 86)
- Resolutions of the Government of the Russian Federation (14 normative acts)
- Orders of the Ministry of Economy and Development of the Russian Federation (34 normative orders)

Document's database at the web page of the Federal Service for Accreditation (Rosakkreditazya):  
<http://fsa.gov.ru/index/staticview/id/49/>



## Wine testing: basic documents

- Accredited laboratory performs the wine testing according to the requirements of the Technical Regulations of the EAEU:
  - TPTC 021/2011 “Food Safety”
  - TPTC 029/2012) “Food additives, flavourings & processing aids”
- There are lists of prescribed methods for each Technical Regulations (including methods for wine testing:
  - List with methods for the TPTC 021/2011 according to the Decision of the Commission of the Customs Union of December 09, 2011, # 880 (Moscow),
  - List with methods for the TPTC 029/2012 according to the Decision of the Eurasian Economic Commission of October 02, 2012, # 258 (Moscow).

Document's database at the web page of the Eurasian Economic Commission (EEK):  
<http://eec.eaeunion.org/ru/act/texnreg/deptexreg/tr/Pages/TRVsily.aspx>



## Wine testing: basic methods

- Analytical methods should have the status of national standards of the Members of the EAEU or the status of the CIS interstate standards (e.g. GOST R – National standard of the Russian Federation; GOST – Interstate CIS standard)
- Accredited laboratory performs the wine testing for following obligatory minimum list of parameters (“Testing of wine safety”):  
**lead, cadmium, arsenic, mercury, total sulfur dioxide, sorbic acid/sorbates**
- Test report used for registration of Declaration of compliance should contain the results of the analysis of the parameters specified by the obligatory minimum list

Document's database at the web page of the Federal Agency on Technical Regulation and Metrology (Rosstandart): <http://gost.ru>



## Mandatory short list of parameters: **Safety**

- all kind of wine & wine products
- declaration of compliance
- participants: Federal Customs Service (FTS), importers, certification bodies, ISO accredited test labs
- frequency of testing: each time for shipment or once per contract (e.g. in case of serial production)

#	Parameter	Maximum limit	Approved test method (standard)	Principle of the test method
1	Lead (Pb), mg/kg	0.3	GOST 30178-96	AAS
2	Arsenic (As), mg/kg	0.2	GOST R 51766-01	AAS
3	Cadmium (Cd), mg/kg	0.03	GOST 30178-96	AAS
4	Mercury (Hg), mg/kg	0.005	GOST 26927-86	Colorimetric determination (as copper tetraiodomercurate) / AAS
5	Total sulfur dioxide (SO <sub>2</sub> ), mg/dm <sup>3</sup>	300.0 (according to product type)	GOST 32115-2013	Oxidation of sulfurous acid by iodine
6	Sorbic acid/sorbates	According to the relevant GOST or GOST R standards for specific groups of wines & wine products	GOST 26181-84	Spectrophotometry



### Additional list of parameters: Quality (identification)

- > all kind of wine & wine products
- > declaration of compliance
- > participants: Federal Customs Service, importers, certification bodies, ISO accredited test labs
- > frequency of testing: each time for shipment or once per contract (e.g. in case of serial production)

#	Parameter	Limits	Approved test method (standard)	Principle of the test method
1	Ethanol, % vol.	8.5-22.0	GOST 32095-2013	Areometry after distillation
2	Sugars, g/dm <sup>3</sup>	According to product type	GOST 13192-73	Bertrand's method/ Direct titration with Feling's reagent
3	Organoleptic properties	According to product type	GOST 32051-2013	Organoleptic testing
4	CO <sub>2</sub> pressure	Sparkling wines	GOST 12258-79	Aphrometer



### Extended list of parameters: Safety

- > all kind of wine & wine products
- > state control & supervision of goods on the market & production
- > participants: Federal Service for Customers' Rights Protection and Human Well-Being Supervision (Rospotrebnadzor) & ISO accredited labs of the Rospotrebnadzor, producers, trade organizations, consumers
- > frequency of testing: scheduled inspections - once per 3 years & company according to the published plans/not scheduled inspections – day notification/according to complaints

#	Parameter	Maximum limit	Approved test method (standard)	Principle of the test method
1	Pesticides	According to general regulations	GOST R 53971-2010	Capillary electrophoresis
2	Phthalates	0.1 µg/l, 6 µg/l	MUK 4.1.738-99	GC-MS



### Extended list of parameters: **Quality (identification)**

- all kind of wine & wine products
- state control & supervision of goods on the market & production participants: Federal Service for Alcohol Market Regulation (Rosalkoholregulirovanye) & ISO accredited lab of the Rosalkoholregulirovanye, Federal Service for Customers' Rights Protection and Human Well-Being Supervision (Rosspotrebnadzor) & ISO accredited labs of the Rosspotrebnadzor, producers, trade organizations, consumers
- frequency of testing: scheduled inspections - once per 3 years & company according to the published plans/not scheduled inspections – day notification/according to complaints

#	Parameter	Limits	Approved test method (standard)	Principle of the test method
1	Citric acid	According to the relevant GOST or GOST R standards for specific groups of wines & wine products	GOST 32113-2013	Enzymatic
2	Titration acids (as tartaric acid)		GOST 32114-2013	Titration (pH 7.0)
3	Volatile acids (as acetic acid)		GOST 32001-2012	Titration after distillation
4	Normalized extract		GOST 32000-2012	Pycnometry
5	Iron		GOST 13195-73/ GOST R 51823-2001	Colorimetry/Inverse voltamperometry
6	CO <sub>2</sub> pressure		GOST 12258-79	Aphrometer
7	Ratio of carbon isotopes <sup>13</sup> C/ <sup>12</sup> C (wine ethanol & sugars)	GOST 32710-2014	GOST 32710-2014	IRMS/SIRA



### Acceptance of test reports of Russian Labs accredited according to the standard GOST ISO/MEK 17025-2009:

- actual state - acceptance of test reports of ISO accredited labs from the EAEU only
- Federal Service for Accreditation (Rosakkreditazy):
  - since Mai 2013 – associated member in the ILAC
  - since December 2015 - member in the APLAC
- bilateral memorandums of cooperation with 14 countries, including one APEC economy –Viet Nam (main topics of the cooperation - informational and analytical exchange, training and skills development)

Databases at the web pages of the Federal Agency for Accreditation (Rosakkreditazy), ILAC & APLAC:  
<http://fsa.gov.ru/index/staticview/id/268/>, <http://ilac.org/ilac-membership/members-by-category/>,  
[https://aplac.org/membership\\_by\\_category.html](https://aplac.org/membership_by_category.html)



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