

Параметры для ввода в программу анализатора iLab-Taurus

Test Name: NN **EtOH** Test Code: IL_ **EtOH-d** **Measure** Sample Reagent Ranges Limits Calibration

Sample Type
Serum

Reaction Cycle
☒ Standard ☐ Extended

Reporting Unit
☒ г/л* Decimal Points: **2**
☐ User Define
 Conv. Factor: **0.000**

Methodology
 Type: ☒ End Point ☐ Rate
 Measuring Point: **16** - ☒ **33**
 Photometric: ☐ 1 Wavelength ☒ 2 Wavelength
 Primary: **375** Secondary: **546**
 Correction Constant:
 Slope: **1.000** Intercept: **0.000**

Test Name: NN **EtOH** Test Code: IL_ **EtOH-d** **Measure** **Sample Reagent** Ranges Limits Calibration

Sample Volume

	Sample	Dilution	
	Volume	Sample Vol.	Diluent Vol.
1	2.0	0.0	0.0
2	2.0	0.0	0.0
3	4.0	0.0	0.0
4	0.0	0.0	0.0

Diluent

Diluent Warning Limit
0 Tests

Reagent Volume
 R1: **EtOH-d1** R2: **EtOH-d2**

	Volume	Diluent Vol.	stirring	Warning Limit(tests)	Stability(days)
R1	200	0.0	<input checked="" type="checkbox"/>	10	No Control
R2	50	0.0	<input checked="" type="checkbox"/>	10	No Control

Sampling Condition

	Condition No.	1	2	3	4
<input type="checkbox"/>	First Run	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Samp.Vol.Reduction	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Below N-Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Above N-Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Panic L	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Panic H	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	User Range L	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/>	User Range H	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Noise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Prozone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/>	HIGH!	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/>	ABS!	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Этанол

ADH UV (алкогольдегидрогеназный УФ метод)

Ranges		Limits																																		
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	User Range			------------	-------		Lower	Upper		0	3.50				
	ValidRange			------------	-------		Lower	Upper		0	3.50				
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☐ On ☒ Off															

Test Name		Test Code		Measure		Sample Reagent		Ranges Limits		Calibration																																		
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* -Рекомендуемый параметр.

** Стандарт, для калибровки, готовится персоналом лаборатории.

Справочная информация использованная для приготовления спиртовых р-ров стандарта и контроля.

<https://www.freechemistry.ru/sprav/pl-c2h5oh.htm>

<https://www.homedistiller.ru/sootnoshenie-obemnyh-i-massovyh-koncentracij.htm>

*На бутылках указаны объёмные проценты.

	массовый %	плотность г/л	Смассовая г/л	Смолярная моль/л
95 об%	92,4	0,811	749,80	16,276
70 об%	62,4	0,8677	552,56	11,995
	0,19	0,9979	1,87	0,0407
	0,14	0,998	1,38	0,03

Приготовление калибратора, разбавить спирт в 400 раз:

Взять 0,5мл спирта и добавить дистиллированной воды до 10 мл (первое разбавление), полученный раствор перемешать. Из полученного раствора взять 0,5 мл и снова добавить дистиллированной воды до 10 мл (второе разбавление).

Вы получили концентрацию : 1,87 г/л (0,0407 моль/л) Если использовался спирт 95% (объёмн)
или 1,38 г/л (0,03 моль/л) Если использовался спирт 70% (объёмн)

для контроля можно использовать другие разбавления.

Например: первый контроль - 1/2 от калибратора; второй контроль - 1/4 от калибратора

из 95% спирта: 0,94 г/л (sd=0,047 г/л) 0,47 г/л (sd=0,023 г/л)

из 70% спирта: 0,69 г/л (sd=0,035 г/л) 0,35 г/л (sd=0,017 г/л)

SD, в первом приближении, как 1/20 от концентрации контроля.