



## CERTIFICATE OF ANALYSIS

**Product:** Etanol 20% Pharma + 20g IPA (1450)  
**Batch Number:** 6090375  
**Date of Manufacture:** 2016-05-02  
**Used Before:** 2018-04-30

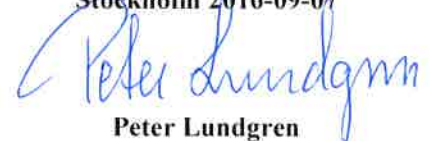
Analysis of source ethanol 99,7%: Batch nr. 6090266

Analysis	Method	Specification	Results
Relative density	Ph.Eur6.	0,790- 0,793	0,792
Density		≤ 0,7917 kg/l	0,7905 kg/l
Ethanol strenght	Ph.Eur6.	≥99,5 vol-% ≥ 99,2 w-%	99,98 vol-% 99,98 w-%
Absorbance 235 - 340 nm, 5cm	Ph.Eur6.	A240 nm <0,40 A250-260 nm <0,30 A270-340 nm <0,10	0,30 0,13 0,02 Absorption curve is smooth.

Analysis at tank

Analysis	Method	Specification	Results
Identification A	Ph.Eur	Complies with the test for relative density.	Approved
Identification B	Ph.Eur	Approved	Approved
Identification D	Ph.Eur	Approved	Approved
Appearance	Ph.Eur	Clear, colorless	Clear, colorless
Acidity or alkalinity	Ph.Eur	Approved	Approved
Volatile Impurities	Ph.Eur	Methanol < 200 ppm V/V	< 200 ppm V/V
		Acetaldehyde + acetal < 10 ppm V/V	< 10 ppm V/V
		Benzene < 2ppmV/V	< 2 ppm V/V
		Total of other impurities < 300 pom	< 300 ppm V/V
Residue on evaporation	Ph.Eur	25 ppm m/V	4 ppm m/V

Solveco AB  
Stockholm 2016-09-07

  
Peter Lundgren