



## CERTIFICATE OF ANALYSIS

**Product:** Etanol 20% Pharma +20g IPA (1450)  
**Batch Number:** 6089844  
**Date of Manufacture:** 2015-09-30  
**Used Before:** 2017-08-31

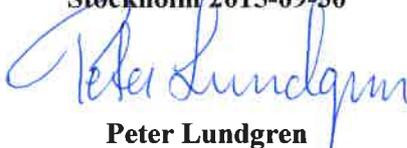
Analysis of source ethanol 99,7%: Batch nr. 6087218

Analysis	Method	Specification	Results
Relative density	Ph.Eur6.	0,790- 0,793	0,791
Density		≤ 0,7917 kg/l	0,7895 kg/l
Ethanol strenght	Ph.Eur6.	≥99,5 vol-% ≥ 99,2 w-%	99,95 vol-% 99,92 w-%
Absorbance 235 - 340 nm, 5cm	Ph.Eur6.	A240 nm <0,40 A250-260 nm <0,30 A270-340 nm <0,10	0,271 0,104 0,012 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	1 ppm m/V

Solveco AB  
Stockholm 2015-09-30

  
Peter Lundgren