



CERTIFICATE OF ANALYSIS

Product: Etanol 20% Pharma + 20g IPA (1450)
Batch Number: 6091673
Date of Manufacture: 2017-11-23
Used Before: 2019-10-31

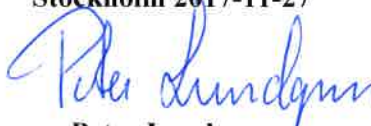
Analysis of source ethanol 99,7%: Batch nr. 6091466

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-%	99,98 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	0,36 0,17 0,03 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	5 ppm m/V

Solveco AB
Stockholm 2017-11-27


Peter Lundgren