

# 非開示情報

## Certificate of Analysis

Product (非開示情報) (-)-2-Hydroxy-4-Phenylbutyric Acid Ethyl Ester(R-HPBE),  
is known as "(R)-Ethyl-2-Hydroxy-4-Phenyl-Butyrate"  
Batch No. (非開示情報)  
Quantity (非開示情報)  
Date of manufacture : November 2, 2020  
Analysis Date : November 16, 2020  
RE-TEST DATE : November 1, 2022

Items	Specification	Results
Appearance	Colorless to light yellow liquid	Conforms
Water content	Not more than 0.1 % ( by KF)	0.02 %
(非開示情報)		
Assay	99.5% Minimum (Area% by HPLC)	99.72 %
(非開示情報)		
Assay	99.5% Minimum (Area% by HPLC)	99.88 %
Optical purity	99.5% e.e. Minimum (by HPLC)	100.00 %
(S)-HPBE	Not more than 0.5%(Area% by HPLC)	0.00 %
Ethyl-2-Oxo-4-phenylbutyrate	Not more than 0.5%(Area% by HPLC)	0.03 %
Single Unidentified Impurity	Not more than 0.5%(Area% by HPLC)	0.02 %

Reference :

Specific rotation :  $[\alpha]_D^{20} = -8.9 \pm 2.5^\circ$  ( C=1, in EtOH)

Boiling point : 212 °C

Date of issue : November 26, 2020

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