CERTIFICATE OF ANALYSIS

(Certificate No. KMA078014-04)

Release Date: 06/10/2025 **Re-test Date:** 05/10/2028

Albuterol EP Impurity D

Identification

Chemical Name:

5-[(1RS)-2-(tert-butylamino)-1-hydroxyethyl]-2-hydroxybenzaldehyde formate salt

Alt. Name : Salbutamol BP Impurity D ;

Levalbuterol USP RC D; Salbutamol

Aldehyde Impurity

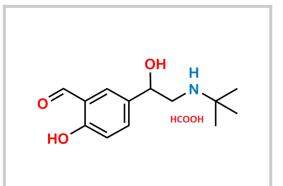
CAT No. : KMA078014

CAS No. : Not Available ; 156339-88-7 (free

base)

Molecular Formula : C13H19NO3 : CH2O2

Molecular Weight : 237.3:46.0



Analytical Information

(1:1)

Description : Yellow Solid

HPLC Purity : 99.40 %

Weight Loss By TGA : 0.12 %

% Potency : 99.28 %

Mass : Confirm

IR : Confirm

1H NMR : Confirm

13C NMR : Confirm

Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition: Product is stable to be Shipped at Room Temperature

% Potency = [100 - 0.12(Weight Loss By TGA)] x [99.40(HPLC Purity)]/100 = 99.28 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		06/10/2025
Reviewed & Approved By	Quality Control	Jatin Patel		06/10/2025

Attachments : COA, HPLC, MASS, 1HNMR, 13CNMR IR and TGA