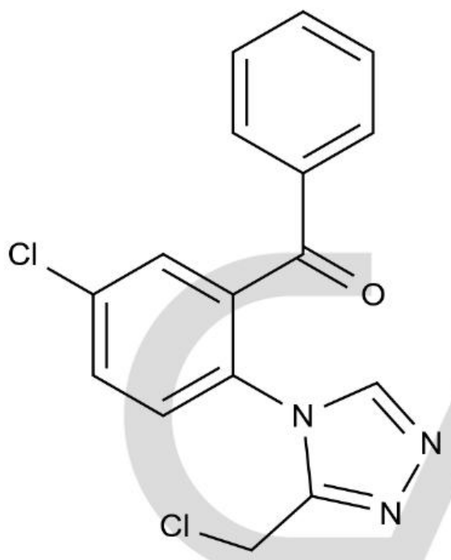
Certificate of Analysis

Reference Material & Standard

Product Name:	Alprazolam impurity 21	**Catalogue Number:**	C4X-146021
Synonyms:	N/A	**Lot Number:**	0924-RH-0064
CAS Number:	37945-06-5	**Expiry Date:**	Sep 27, 2030
Molecular Formula:	$C_{16}H_{11}Cl_2N_3O$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	332.18	**Shipping Condition:**	Shipping with Ice Packs
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Green Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.871%
Loss on Drying	TGA	1.4371%
Assay		96.5%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Hinlam Date: Sep 28, 2026

Reviewed by: Koi Date: Sep 28, 2026

Approved by General Manager: David Date: Sep 28, 2026

CATO Research Chemicals Inc.