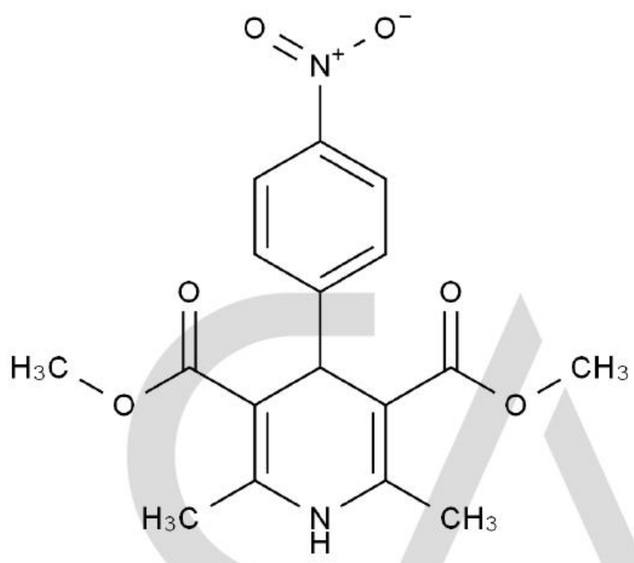
Certificate of Analysis

Reference Material & Standard

Product Name:	Nifedipine Impurity 9	**Catalogue Number:**	C4X-14109
Synonyms:	Benidipine Impurity	**Lot Number:**	0929-RH-0065
CAS Number:	21829-09-4	**Expiry Date:**	Oct 07, 2030
Molecular Formula:	$C_{17}H_{18}N_2O_6$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	346.33	**Shipping Condition:**	Shipping at Room Temperature
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.385%
Loss on Drying	TGA	1.5308%
Assay	Mass Balance	97.9%

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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: Alice Date: Oct 08, 2026

Reviewed by: Koi Date: Oct 08, 2026

Approved by General Manager: David Date: Oct 08, 2026

CATO Research Chemicals Inc.