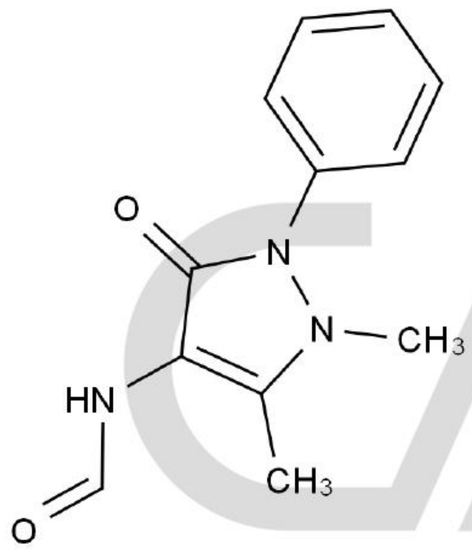
Certificate of Analysis

Reference Material & Standard

Product Name:	4-Formylamino Antipyrine	**Catalogue Number:**	CCAD300647
Synonyms:	N/A	**Lot Number:**	1027-RH-0105
CAS Number:	1672-58-8	**Expiry Date:**	Oct 29, 2030
Molecular Formula:	$C_{12}H_{13}N_3O_2$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	231.25	**Shipping Condition:**	Shipping with Ice Packs
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.852%
Loss on Drying	TGA	0.0060%
Assay	Mass Balance	99.8%
Uncertainty		±0.2%

Comment:

1. 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.
2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by: Alice Date: Oct 30, 2026

Reviewed by: Koi Date: Nov 02, 2026

Approved by General Manager: David Date: Nov 02, 2026

CATO Research Chemicals Inc.