Vitamin B1

$C_{12}H_{17}ClN_4OS{\cdot}HCl$ · CAS 67-03-8 · Thiamine hydrochloride, crystalline

SPECIMEN — LIMITS ONLY · BATCH RESULTS ISSUED WITH THE LOT

PRODUCT	CHEMICAL FORM	CAS	SPECIFICATION VERSION
Vitamin B1	Thiamine hydrochloride, crystalline	67-03-8	Catalog · confirmed at quotation
BATCH NUMBER	**MANUFACTURE DATE**	**RETEST DATE**	**RELEASE DECISION**
Issued with the lot	Issued with the lot	Issued with the lot	Issued with the lot

RELEASE SPECIFICATION

PARAMETER	SPECIFICATION	METHOD
Assay (dried basis)	98.5–101.5% (titration)	As stated
Appearance	White or almost white crystalline powder	As stated
Identification	IR conforms	As stated
pH (2.5% solution)	2.7–3.3	As stated
Water (Karl Fischer)	≤5.0%	As stated
Sulfated ash	≤0.1%	As stated
Nitrate	Passes test	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Particle size	≥95% through 40 mesh	As stated
Marker set	Thiamine hydrochloride (98.5–101.5%, dried basis)	Identity
Solubility	Freely soluble in water; the 2.5% solution is acidic (pH 2.7–3.3).	Matrix dependent

LOT FIELDS

A batch-specific certificate replaces the fields above with the measured result, the method actually used, the batch number, the manufacture and retest dates, and the release signature. The catalog limits on this page are the release window, not a result.

STATEMENT

This specimen shows the format and the release specification. It is not a batch COA and must not be presented as one. The COA that ships with a lot is issued from the released batch and is available before dispatch.

Pack and storage. 1 kg foil pouch · 25 kg fiber drum. Store closed in a cool, dry place, away from direct sunlight and moisture. The lot-specific retest

> date is shown on the batch certificate.