Vitamin K2 MK-7

$C_{46}H_{64}O_2$ · CAS 2124-57-4 · Menaquinone-7 1% spray-dried powder on carrier

INDICATIVE SPECIFICATION — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Menaquinone-7 1% spray-dried powder on carrier	$C_{46}H_{64}O_2$	2124-57-4	0.9–1.1% (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC	1 kg	1–7 days	1 kg foil pouch

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
MK-7 content	0.9–1.1% (HPLC)	Analytical
all-trans isomer	≥92% of MK-7 (HPLC)	Analytical
Appearance	Pale yellow to yellow powder	Specification
Identification	HPLC retention time conforms	Analytical
Loss on drying	≤5.0%	Specification
Carrier	Starch or gum arabic, declared on the certificate	Specification
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	Specification
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	Specification
Particle size	≥95% through 40 mesh	Sieve
Marker set	MK-7 (0.9–1.1%), all-trans ≥92% of MK-7	Identity / ratio
Appearance	Pale yellow to yellow, free-flowing powder	Visual
Solubility	Dispersible in water; MK-7 itself is fat-soluble and is carried on a water-dispersible matrix.	Matrix dependent
Standard packaging	1 kg foil pouch · 25 kg fiber drum	Food-grade liner

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes
- Gummies and chews
- Functional beverages

AVAILABLE FORMS

- 1% spray-dried powder
- Oil suspension on request
- Granulated on request

WHAT TO CONFIRM BEFORE ORDERING

- Confirm whether the grade is pure MK-7 or a 1% powder. The carrier and the assay basis change the label and the fill weight.
- Ask for the all-trans and cis isomer figures, not only the total MK-7; the isomer ratio is the identity check.
- MK-7 is sensitive to light and heat; the pack and the process temperature belong in the specification.
- The EU novel-food entry sets a specification for MK-7; check the current entry for the source and the isomer limits.

> **Indicative document.** This sheet describes the grade we can quote; it is not a batch COA and does not confirm a result for a specific lot. Final specification, contaminant limits and documentation are agreed in writing before the order. The form, hydrate state, ligand ratio and method are release parameters, not marketing descriptions.

DOCUMENTATION RELEASED WITH EACH LOT

DOCUMENT	CONTENT	SCOPE
Certificate of analysis	Assay, identity, physical parameters, contaminant panel and the release decision for the lot.	Batch-specific
Technical data sheet	Form, hydrate state, CAS, specification ranges, solubility, bulk density, storage and packing.	Product-level
Safety data sheet	Sixteen sections covering hazards, handling, storage, transport and emergency response.	Grade-specific
Allergen and GMO statements	Major allergens, gluten, animal-derived inputs and GMO status.	Batch-specific
Origin and traceability record	Manufacturing site and the link between the lot and the retained sample.	Batch-specific
Residual-solvent statement	The crystallisation system and the solvent class, where applicable.	Batch-specific

HOW TO REQUEST THIS GRADE

01 · BRIEF

Send the target specification, quantity, dosage form and destination market.

02 · COUNTER-SPEC

We confirm what can be matched and the documents available for the grade.

03 · SAMPLE & QUOTE

A sample with its own COA, followed by packing, lead time and terms in writing.

No claim is made here. This sheet does not claim a therapeutic effect, a product certification or a regulatory approval. Health claims belong to the brand that makes them and to the market that authorises them.

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