

PRODUCT SPECIFICATION · LIFEPACK MAP BAG

Melissa (Lemon Balm)

Melissa officinalis



PRODUCT DETAILS

Product	Lifepack MA-MH (Modified Atmosphere / Modified Humidity) melissa MAP bag. MAP maintains high humidity and prolongs senescence, thus keeping the product fresher and firmer for longer.
Produce type	Culinary herb, harvested when the stem is soft to semi-woody, with or without flowers
Ethylene	Production Moderate · sensitivity High (both produces and is sensitive to ethylene — UC Davis Postharvest)
Suitable for	Organic & conventional melissa (inert film — no organic certification needed)
Background	Melissa (lemon balm) is harvested while the stem is soft to semi-woody, sometimes with immature or mature flowers still attached. Its low thermal mass and large surface area make it highly perishable, and it both produces and is sensitive to ethylene, so control is essential to preserve colour and aroma.

PERFORMANCE & BENEFITS

Shelf life – cold chain	Up to 3 weeks at 0–2 °C
Shelf life – ambient	5–7 days at 10 °C
Recommended atmosphere	O ₂ 1–5% · CO ₂ 5–15% · RH 95–100% General postharvest guidelines (fresh culinary herbs — UC Davis Postharvest).
LIFEPACK MAP BAG KEY BENEFITS	• Extended shelf life for longer storage and distribution • Reduced dehydration and wilted leaves • Preservation of aroma and flavour • Inhibition of chilling injury • Maintained fresh, green leaves and stems • Maintained freshness and firmness • Inhibition of storage mould and rots • Higher profitability due to reduced wastage

MATERIAL, FILM & COMPLIANCE

Film structure	Coextruded multilayer film — polyamide (Nylon-6, CAS 25038-54-4) and polyethylene / copolymer (CAS 9002-88-4)
Thickness / WVTR	22 microns · water vapour transmission (WVTR) 7–9 g/m ² /day
Properties	Transparent film; melting point 104–115 °C; density 0.918–0.923 g/cm ³ ; insoluble in water; stable
Food-contact compliance	FDA 21 CFR 177.1500 & 177.1520; EU 10/2011 and migration limits (EU) 1183/2012
Food safety	Manufactured under FSSC 22000 / ISO 22000 — current certificates on request

AVAILABLE SIZES

Formats	Lifepack MAP bags available to fit standard 2, 5 and 10 kg cartons. Custom sizes on request.
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