



PEARLITOL® ProTec – filler for moisture sensitive ingredients in direct compression

Co-processed mannitol and starch excipient designed for the direct compression of moisture sensitive ingredients such as probiotics and vitamins. PEARLITOL® ProTec provides protection from tableting process, including compression and improves stability due to low-water activity.

COMPONENT COMPLIANCE

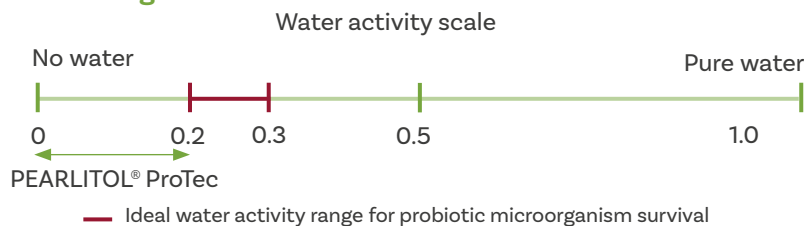


RANGE PRESENTATION

PEARLITOL® ProTec

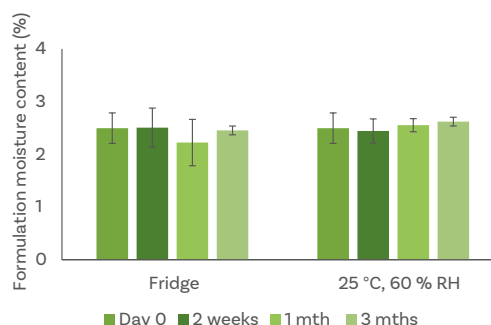
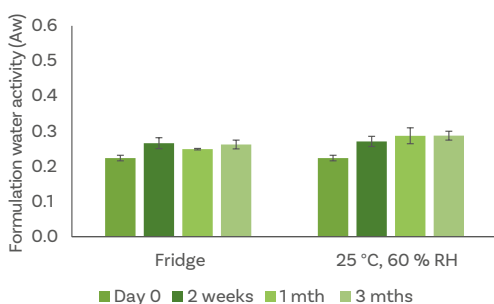
Moisture content (%)	below 1
Water activity (Aw)	below 0.2

Filler requirement for viability/survival of probiotic microorganisms



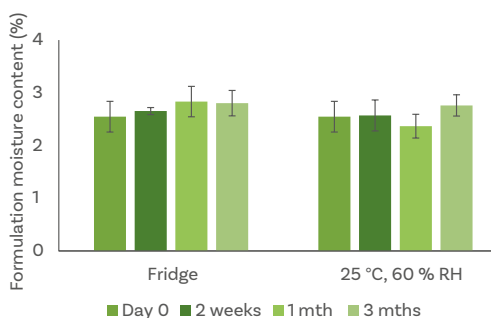
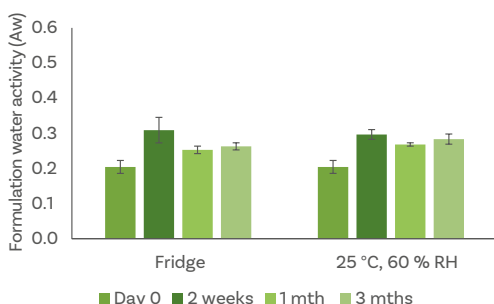
Stability: a key consideration in probiotic product formulations

Low force tablet



Water activity and storage (e.g., temperature) are the main condition factors impacting probiotic stability over the shelf life of the product. The water activity and moisture content of the formulation with PEARLITOL® ProTec remains **stable in time**.

High force tablet



Probiotics are sensitive to pressure; high compaction forces may damage the probiotic microorganism and decrease their viability. PEARLITOL® ProTec in direct compression does not impact the viability of moisture sensitive nutraceutical ingredient.

Formulation

24.75% *Lactobacillus rhamnosus*

74.25% PEARLITOL® ProTec
1% Roquette magnesium stearate



PEARLITOL® ProTec – The low water activity, low moisture, directly compressible solution of sensitive ingredients

FUNCTIONAL PROPERTIES



Sweetener



Maintain viability
of probiotic



sensitive APIs and probiotics

PROCESS SIMPLIFICATION

- Suitable for various dosage forms
- Ability to maintain stability for **moisture sensitive APIs** whatever the compression force used
- Protects moisture sensitive nutraceutical ingredients from damage that high compaction forces may cause: direct compression does not impact their viability

COST SAVINGS

- **Low water** activity removes the extra **step of additional drying**
- **Ready-to-use co-process excipient**

PATIENT COMPLIANCE

- **Sweet** and **pleasant taste** enhancing **customer experience**
- Formulate forms providing **discrete use** (chewable tablets)

APPLICATIONS



Chewable
tablets



Stick
packs



Hard
capsules



Sachet
delivery forms



Probiotic
tablets



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