



# DiluCap Hygro

The right excipient for hygroscopic APIs

The choice of the correct excipient is of great importance to ensure the clinical performance of an active pharmaceutical ingredient (API), as it can directly influence its bioavailability, solubility, stability, and other physical and chemical properties.

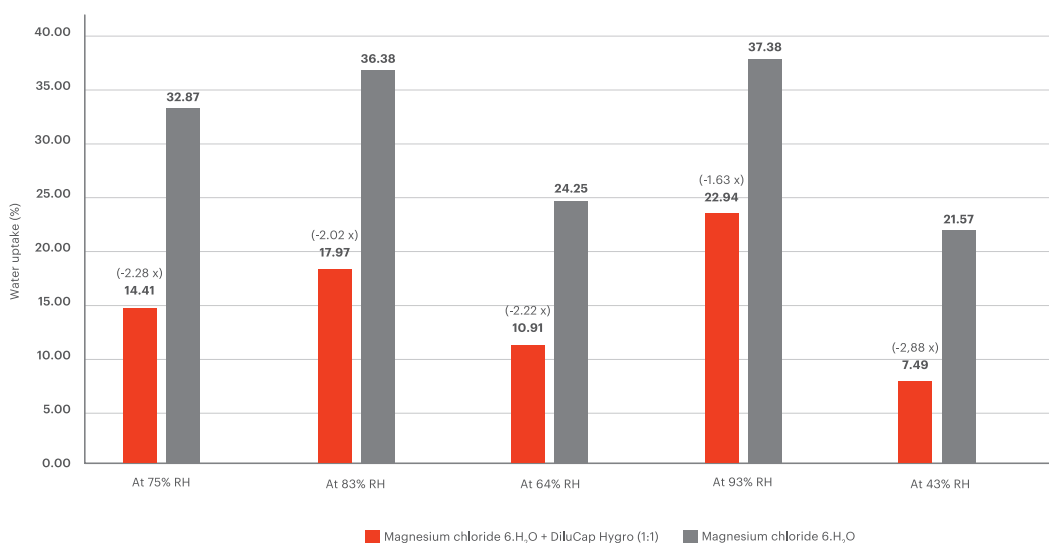
Defining a blend of ingredients to build an adequate excipient to a dosage form is not always a direct process and can be time-consuming as the evaluation of the performance needs to be done in a trial-and-error way.

Some ingredients have a high tendency to absorb moisture from the environment – they are called **hygroscopic**.

This behavior can directly influence the stability of the powder and of the formulation, the flowability, and even lead to deliquescence, dissolving the molecules from the product. This represents not just an operational issue, as it complicates powder handling, but also a risk to the success of treatment.

**DiluCap Hygro** is a ready-to-use excipient that was carefully developed **to compound with highly hygroscopic APIs**, by presenting absorbent properties that will protect the formulation from moisture interference.

**DiluCap Hygro** is physiologically inert and free from allergens such as lactose, gluten, soy, and others.



Differences in water uptake by magnesium chloride hexahydrate when standalone or in a mixture 1:1 with DiluCap Hygro, in different humidity conditions.

**DiluCap Hygro** provides to the pharmacist:

- Avoidance of segregation between particles
- The preservation of the API stability
- Dose accuracy among capsules due to adequate particle distribution
- High-performance formulations with adequate bioavailability
- Better handling of different powders and great flow properties
- Proven functionality
- Reproducibility in every batch
- Reduction of process time and number of items in stock

**For each API, there is a right DiluCap excipient:**

