

TEWS

# SUCCESS STORY

## Pharmaceutical Industry

**FROM HOURS  
TO SECONDS:**

How TEWS  
Enables  
<1s Lab Testing



[www.tewsworks.com](http://www.tewsworks.com)



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Pharmaceutical QC teams face rising pressure to deliver faster, more reliable moisture data. Traditional methods like LOD or Karl Fischer introduce delays, chemical risks, and variability.

## THE CHALLENGE:

Pharmaceutical laboratories are under pressure to deliver fast and reliable moisture readings. Traditional methods (like LOD or Karl Fischer) require lengthy sample preparation, take up to an hour per batch. They are usually sensitive to human error and material appearance, which leads to bottlenecks in product development, batch release, and quality control workflows.

- Might exceed 60 minutes per sample
- Inconsistent sample prep could affect reproducibility
- Particle shapes, colors, and densities complicate measurements

## THE SOLUTION:

TEWS offers a rapid, non-destructive alternative. Moisture results in less than one minute, with no sample preparation, no chemicals, and no sensitivity to material appearance.

- Real-time measurements with automated precision.
- Works equally well with tablets, powders, granules, or blends.
- Operator-independent, robust across varying shapes, sizes, and colors.



## USE CASE:

In laboratory environments, TEWS systems have been applied to pharmaceutical materials ranging from compacted powders to coated dosage forms. Comparison to results between reference methods show exceptionally high correlation (usually  $r^2 > 0.9$ ) and standard deviations as low as 0.2%, even with irregular or visually variable samples.



- Accurate, reproducible results without needing grinding, drying, or weighing.
- Reliable performance under manual handling conditions.
- Suitable from early-stage formulation to routine QC.

## RESULTS:

Pharma labs using TEWS systems replace hours of testing with instant, high-confidence results. The technology enhances lab efficiency while maintaining the precision of reference methods.

**<1 MIN VS. UP TO 30 MIN**

Total testing time reduced

**€0 CONSUMABLES**

No chemicals, drying, or prep steps required

**10× THROUGHPUT**

Dramatically faster decisions and lab capacity

