COMPLETE MOISTURE ANALYSIS

High Resolution Isotherm in Two Days

The way a product behaves as humidity changes can reveal important insights. This type of measurement is called an isotherm (we change humidity as temperature stays the same). Isotherms hold the key to understanding hidden details of food and pharmaceutical products.

Here are a few examples:

Formulate Intelligently

A pharmaceutical manufacturer wants to formulate a production version of a drug that has just finished clinical trials. Isotherms show them which excipients can be combined with the API to create a stable product. Vapor sorption also shows them how the pill will perform under abuse conditions.

What's New

If isotherms are so useful, why doesn't everyone make them? Making isotherms by hand takes too much time and effort. Historically, instruments that do this were much too expensive for most R&D departments. Also, both approaches were overly complex. The AquaLab Vapor Sorption Analyzer changes this—it's simple to use, affordable, and performs both static and dynamic vapor sorption analysis with ease. ■

■ Set Specifications

Determine the most stable water activity for your food product and predict reactions and textural changes that end shelf life.

■ Guide Formulation

Map out how an ingredient or recipe will respond as you change formulation.

■ See Details

Typical isotherms have fewer than a dozen points. AquaLab Vapor Sorption Analyzer generates over 100 for each isotherm curve.

■ Measure Shelf Stability

Predict how abuse conditions like high humidity will affect shelf life.

AQUA LAB BY DECAGON

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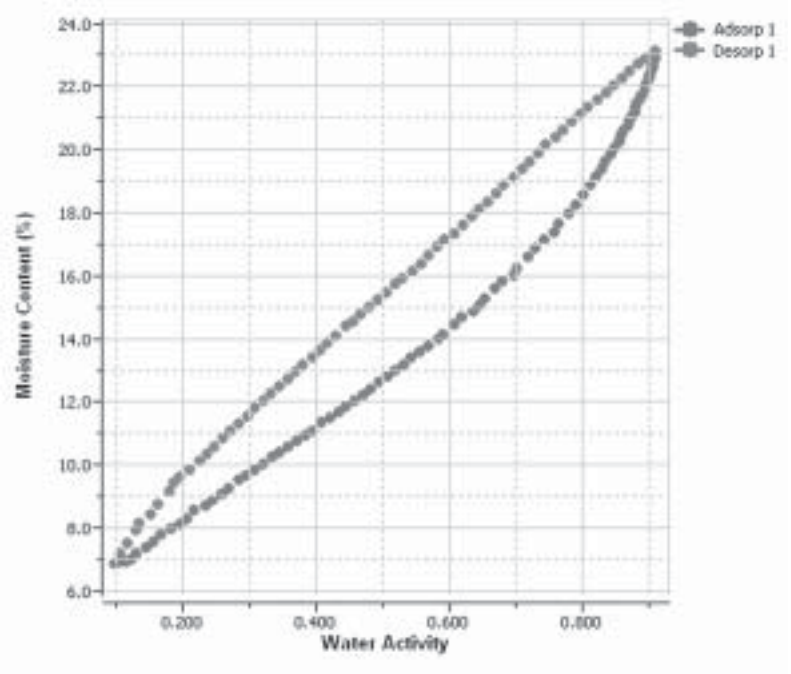

AquaLab VSA delivers over a hundred points in about 48 hours.

AQUALAB VSA, an affordable isotherm generator, uses the chilled-mirror technology. The Dynamic Dewpoint Isotherm (DDI) method gives you full sorption isotherm curve development—hundreds more data points in days instead of weeks. An easy to use software program simplifies data collection and analysis, including BET and GAB determination.

AquaLab VSA Specifications

WATER ACTIVITY
Accuracy
±0.005aw
Repeatability
±0.003 aw
Range
0.030 to 0.950 aw

Isotherm Methods
Dynamic Dewpoint Isotherm (DDI) & Static (DVS)

External Gas
Not needed.
If external gas, no more than 7PSI.

Computer Interface USB
Mass Resolution ±0.1 mg
Water Reservoir 20ml
Sample Cup Volume 10cc
Sample Weight
500 to 5,000mg
Power
110 V to 220 V AC, 50/60 Hz
Weight 28 lbs
Temperature 20 to 60 °C
Temp Stability ±0.1 °C
Dimensions
W 10" x L 15" x H 12"
25.4cm x 38.1cm x 30.5cm

AquaLab VSA
Vapor Sorption Analyzer

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