

Join our free webinar:  
**How to perform a proper Thermal Mapping—Guidelines, Process and Devices**  
Learn how to identify crucial storage areas with proper monitoring devices

Wednesday, 21th December 2022  
CST 3 p.m.

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## 網路研討會註冊

### 主題

**How to perform a proper Thermal Mapping--Guidelines, Process and Devices**  
如何執行正確的熱測繪-指南、過程和設備

日期: December 21<sup>st</sup>, 2022(週三)

時間: CST 15:00 (Singapore, China, Hong Kong, Taiwan, Kuala Lumpur, Perth)

期間: 1-1.5 hours

語言: English

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Content Descriptions 內容說明:

- What is thermal mapping or say temperature mapping? The requirement of thermal mapping is defined in the GDP Guidelines Chapter 3.2.1: "An initial temperature mapping exercise should be carried out on the storage area before use, under representative conditions." The results of this mapping should be used to place monitoring devices at areas that experience the most temperature differences and the hot and cold spots. 什麼是熱測繪或溫度測繪? GDP 指南第 3.2.1 章定義了熱測繪的要求: "在使用前, 應在具有代表性的條件下對存儲區域進行初始溫度測繪練習。" 該測繪的結果應用於將監控設備放置在經歷最大溫差和及熱點和冷點的區域。
- Thermal mapping is designed to help companies to understand and monitor their storage areas from warehouse, stability chambers, incubators, refrigerators, cold rooms, vans, boxes and so on. The process can help to decrease movement of temperature and humidity in a controlled area. 熱測繪旨在幫助公司從倉庫、穩定室、培養箱、冰箱、冷藏室、貨車、箱子等了解和監控其存儲區域。該過程有助於減少受控區域內溫度和濕度的變化。
- Things to consider: 需要考慮的事項:
  1. Identify crucial storage areas: highest point of storage, heaters, coolers, lighting, windows, doors, loading bays etc. 確定關鍵存儲區域: 存儲的最高點、加熱器、冷卻器、照明、窗戶、門、裝載區等。
  2. Use calibrated monitoring devices in sufficient numbers. 使用足夠數量的校準監控設備。
  3. Record and assess data. 記錄和評估數據。Repeat mapping to cover for seasonal variations or if the storage area is (subsequently) reconfigured. 重複測繪以涵蓋季節性變化或存儲區域是否(隨後)重新配置
- Join us if you are interested in learning more about Thermal mapping! In this webinar, below topics will be covered: 如果您有興趣了解有關熱測繪的更多信息, 請加入我們! 在此網絡研討會中, 將涵蓋以下主題:
  - What is thermal mapping 什麼是熱測繪?
  - Regulatory Requirements and Expectations 監管要求和期望
  - How to conduct a good thermal mapping work 如何做好熱測繪工作?
  - Industry Case Examples in Europe and in Asia Pacific 歐洲和亞太地區的工業案例
  - Thermal mapping service from ebro 來自 ebro 的熱測繪服務
  - - Q&A 問答

**Webinar - Speakers: 網絡研討會 - 演講者們：**

Sebastian Schwarz - Market Manager Pharma 市場經理 製藥



德國 Erlangen 化學和生物工程師學位

- 8 years experience as a consultant in a GMP controlled environment 8 年在 GMP 受控環境中擔任顧問的經驗
- Projects in the areas of calibration, qualification and validation for pharmaceutical manufacturers throughout Europe 為整個歐洲的製藥商提供校準、鑑定和驗證領域的項目

**Dr. Allan Javier**

**Ebro Product Manager (SEA) 產品經理(東南亞)**



- Biochemist by profession 專業為生物化學家
- Process authority for food and pharmaceutical processes 食品和製藥流程的過程權限
- 20+ years of experience in planning, writing and executing validation and qualification procedures 在規劃、編寫和執行驗證和具備資格確認程序方面擁有 20 多年的經驗

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