

# Lacamas Laboratories



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FINE CHEMICALS  
MANUFACTURED IN OREGON

# Company History

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- **Established in 1985**
- **Founded by Dr. Allen Erickson, current President & CEO**
- **Several key products started the company**
- **Growth and expansion every year since inception**
- **Privately owned with solid financial resources (i.e., self-sufficient for Capital needs)**

## Site and Facilities

**4.5 Acre (1.8 Hectares) Site**

**3 Manufacturing Buildings**

**12600 ft<sup>2</sup> (1170 m<sup>2</sup>)**

**Office and Laboratory Facilities**

**4000 ft<sup>2</sup> (370 m<sup>2</sup>) Laboratory Area**

**3 Warehouses 19000 ft<sup>2</sup> (1760 m<sup>2</sup>)**

**Raw Materials**

**In-Process**

**Finished Product**



# Production Manufacturing Capabilities

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- **8 Production Lines of 1000 and 2000 gallon reactors (4000 and 8000 L)**
  - **>32,000 gallons (120,000 L) GL, Hastelloy & SS reactors**
  - **Hydrogenation: 500 gallons up to 300 psi**
  - **Hastelloy C and Tantalum Overheads**
  - **Hastelloy C Centrifuges**
  - **Variety of dryers**
  - **Heating and cooling from -40 to >200°C**
  - **High capacity vacuum to <1 Torr**



# Distillation Capabilities

## Continuous Fractional Distillation

Engineered Packing

26 Theoretical Plates

High resolution

High efficiency

High capacity

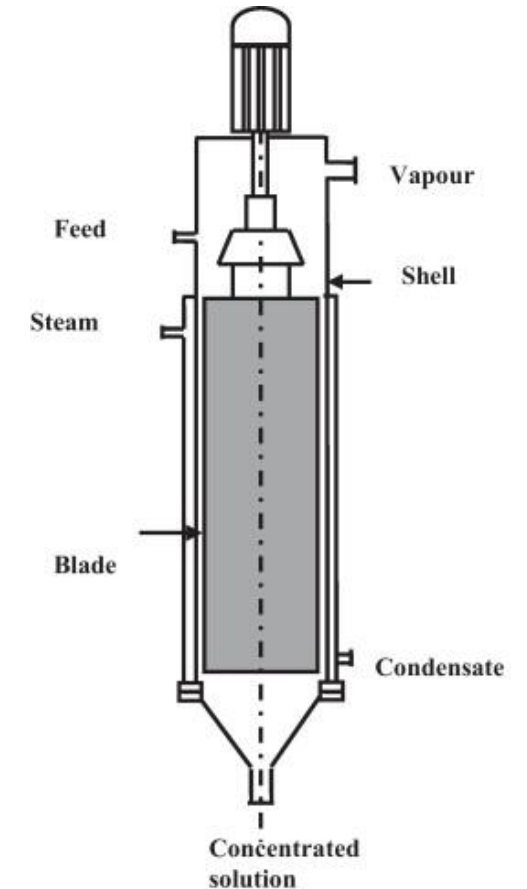
## Thin Film Distillation

Thermally sensitive materials

Short contact times

High vacuum, <1 Torr

High capacity, 8 kg per Minute



# Quality Systems

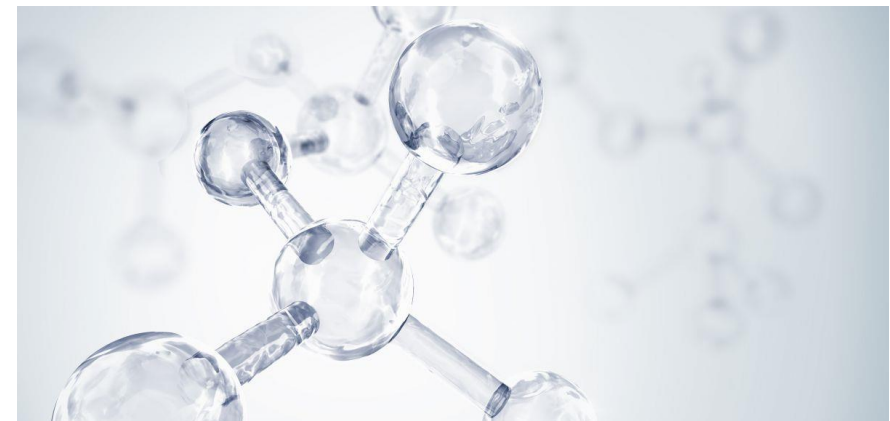
- Lacamas maintains effective quality systems that:
  - Meet customer requirements
  - Comply with applicable current Good Manufacturing Practices (cGMP)
  - Focus on continuous improvement
  
- Quality Unit
  - Quality Assurance
    - OOS/Deviation Reporting
    - CAPA Program/Internal Audits
    - Supplier Qualification
    - Change Control Program
    - Validation Program
  
  - Quality Control
    - Raw Material, Intermediate and Final Product Testing
    - Analytical Methods Development
    - Full Analytical Capabilities including NMR



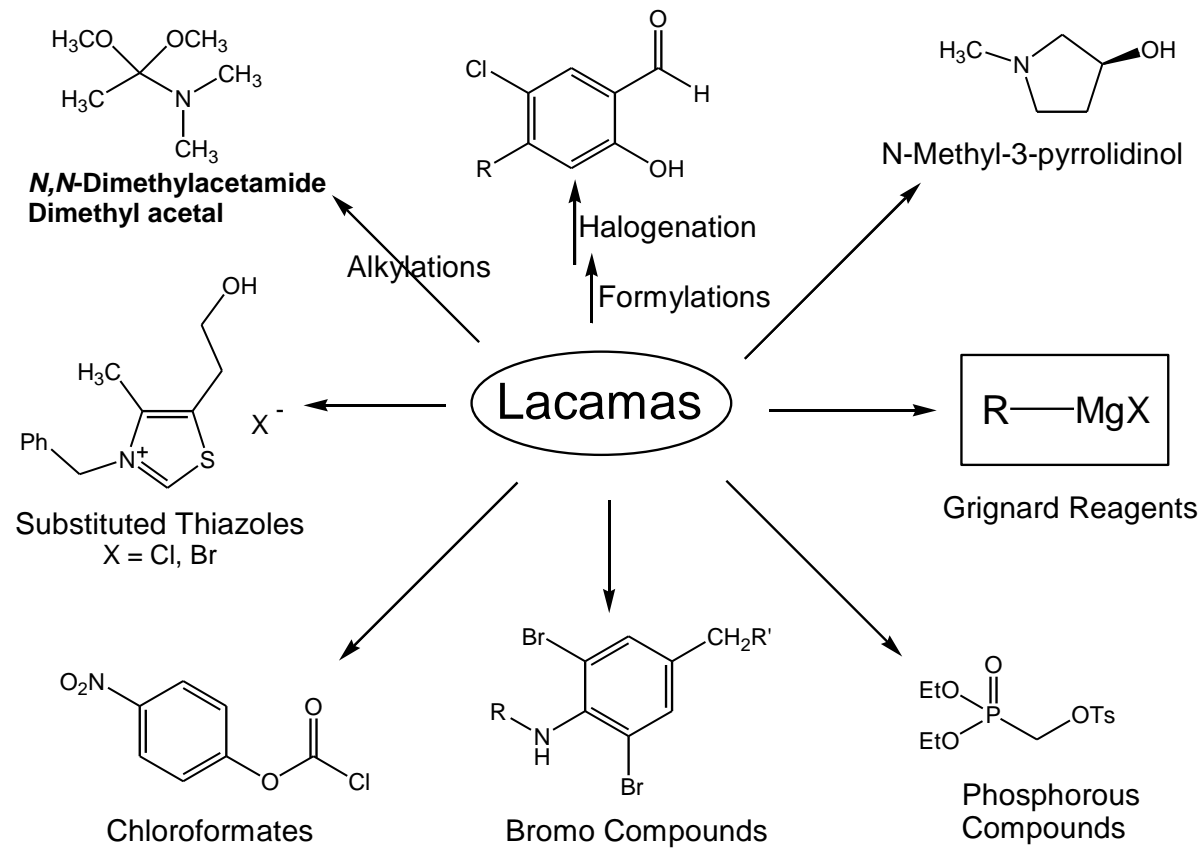
# Technical Expertise

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- **R&D and Process Development**
  - **Laboratory process optimization (up to 5 Liters)**
  - **Pilot front-run (400 Liters)**
  - **Commercial production (up to 8,000 Liters)**
- **Chemical engineers and process chemists on staff work together to scale up new processes**

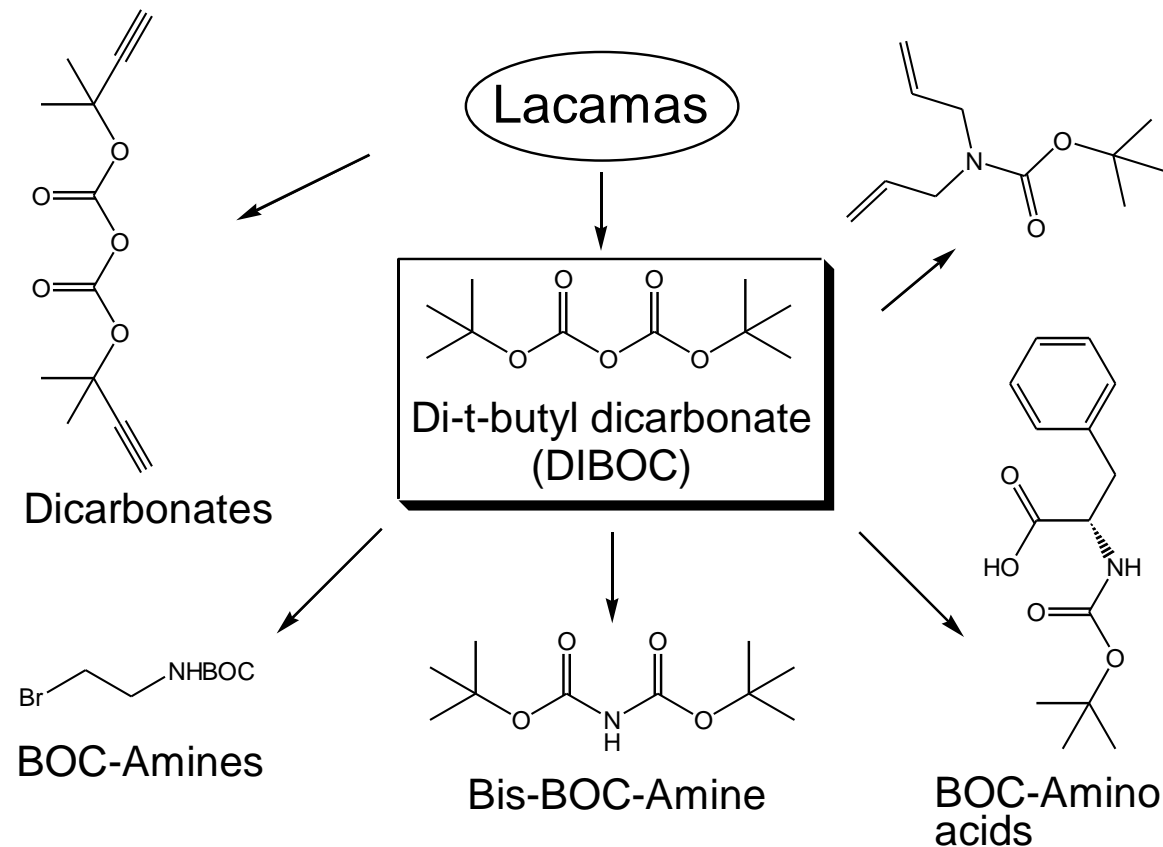


# Synthetic Strengths





# Diboc and Custom BOC Derivatives



# Visit us Online and in Portland

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For any questions or inquiries please contact:

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