



This video was developed by Labs for Life, a partnership project of Ministry of Health and Family Welfare (MoHFW) and the U. S. Centers for Disease Control and Prevention (CDC).

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Chemiluminescence Immunoassay Analyzer

Learning Objectives

The objective of this video is to apprise the viewer about the following aspects of Chemiluminescence Immunoassay Analyzer:

- Principles
- Operation
- Sample requirement
- Maintenance
- Calibration

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- ⦿ Predominant
 - ELISA
 - Chemiluminescence Immunoassay

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Chemiluminescence Immunoassay Analyzer

Sandwich immunoassay by CLIA



- ⦿ Reaction mixture incubates and analyte present in the sample binds to corresponding capture molecules on the microparticles forming the immune complex

Chemiluminescence Immunoassay Analyzer

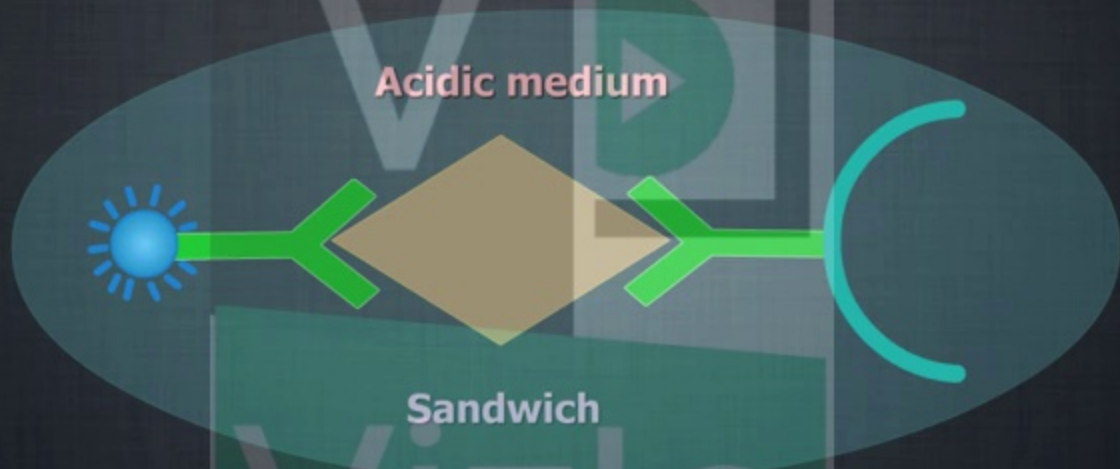
Sandwich immunoassay by CLIA



- A chemiluminescent acridinium-labeled conjugate is now added which binds to the immune complex to complete the reaction mixture

Chemiluminescence Immunoassay Analyzer

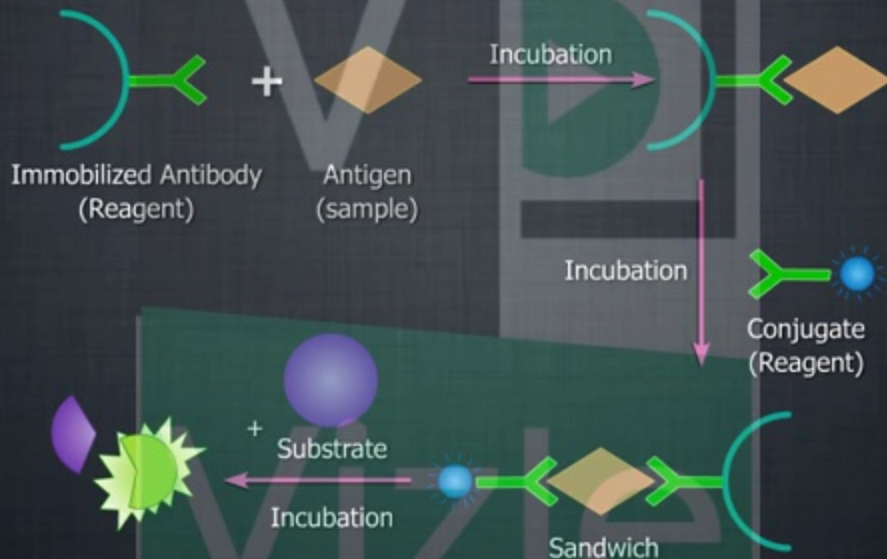
Sandwich immunoassay by CLIA



- Pre-trigger creates an acidic environment to prevent early release of energy or light emission

Chemiluminescence Immunoassay Analyzer

Sandwich immunoassay by CLIA



➤ RLUs - Detected by Architect System Optics

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- ▶ Samples can be loaded in the primary sample tubes with positive identification

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