

Cypher One: Plate Setup Conditions

Background: Cypher One™ is a new tool for rapid automated analysis of hemagglutination (HA) and hemagglutination inhibition (HI) assays. Until now interpretation of HA and HI assays required specialized expertise to accurately read and manually record the data, with experienced users often differing in their interpretation of the titer value. The Cypher One system will not only standardize analysis but also provide a digital, traceable record to enhance data quality and reliability.

Objective: This technical note will outline the plate setup conditions to ensure quality results.

Assay Setup: The Cypher One software requires

that each plate to be setup in a standard format for accurate interpretation. Specifically, the following experimental conditions must be utilized (see **Figure 1**):

1. Negative controls included in each well of column 12.
2. The dilution of each sample is to be performed across the row (e.g., A1-A11).

Compatible Plate Formats: The Cypher One system can accommodate both round (U) and conical (V) bottoms for flexible analysis. However it is critical that the wells of the plate align with the wells of the receiver plate. For guaranteed alignment it is recommended that plates are purchased from InDevR.

Figure 1 – Cypher One Plate Setup Conditions

