



The use of ELISpot assays for evaluating the safety of therapeutic drugs

After dosing with a drug, patient immune systems can mount anti-drug responses, which include humoral and cellular immunogenicity.

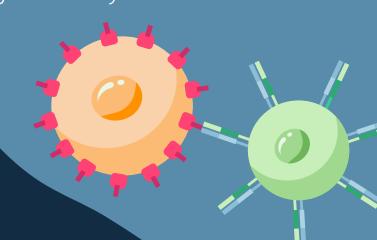


Humoral immunogenicity is the production of anti-drug antibodies after activation of B cells.





of anti-drug T cells. These cells may recognize other cells in the body that have taken up the drug and kill them through a variety of mechanisms.





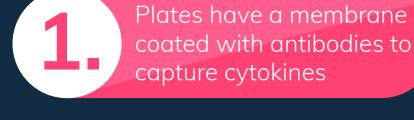
therapeutics includes testing for cellular immunogenicity. This can be performed using ELISpot.

Evaluating the safety of drugs such as cell and gene

number of cytokine-producing T cells that are activated in response to stimulation with peptides derived from the therapeutic being tested.

ELISpot, Enzyme Linked Immunosorbent Spot assay, is a method that measures the

ELISpot assay workflow:



capture cytokines

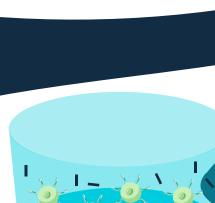


the wells

Patient immune cells

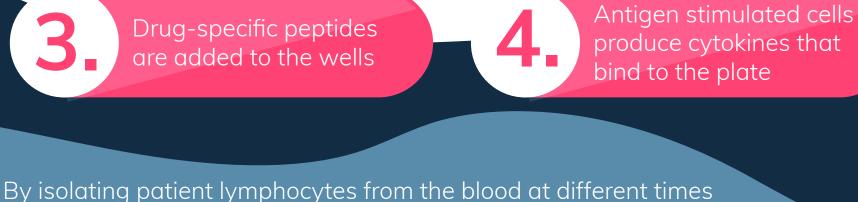
(PBMCs) are added to















post-treatment and incubating them with the therapeutic peptides in



Some of the common areas for concern include: When should the assay be validated?

During validation, what parameters should be tested?

How should the peptides be designed and produced?

What controls should be included in the assay?

- How should the data be reported?
- bodies as the ELISpot assay becomes more common in a regulatory setting.



BioAgilytix offers ELISpot assays at multiple global locations. With the ability to qualify and validate assays for nonregulated or regulated work, BioAgilytix's ELISpot platform provides robust data for monitoring cell-mediated immune responses to biologics, cell

therapies, and gene therapies during clinical and preclinical testing. Speak to a scientist

about your ELISpot project at https://www.bioagilytix.com/speak-to-scientist/

