

Whole Cell Antigen, MPXV hMPXV/USA/MA001/2022, Clade II with Uninfected Control BSC-40 Cells, Gamma-Irradiated

Catalog No. NR-59451

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Product Description:

NR-59451 is a whole cell antigen kit with two components, NR-58721 and NR-58720 (Table 1), prepared following the same procedure. NR-58721 was prepared from pelleted uninfected *Chlorocebus* (previously *Cercopithecus*) *aethiops* kidney epithelial cells (BSC-40) and NR-58720 was prepared from BSC-40 cells infected with MPXV hMPXV/USA/MA001/2022, Clade II. Cell pellets were gamma-irradiated (5×10^6 RADs) on dry ice, followed by sonication and centrifugation to clarify. The supernatant containing the irradiated antigen was aliquoted and vialled.

Table 1: MPXV Whole Cell Antigen Kit Components

COMPONENT NUMBER	DESCRIPTION	LOT NUMBER	DATE OF MANUFACTURE
NR-58721	Gamma-irradiated uninfected BSC-40 whole cell antigen control	70055681	12SEP2022
NR-58720	Gamma-irradiated SARS-CoV-2, isolate MPXV hMPXV/USA/MA001/2022, Clade II whole cell antigen	70055679	10AUG2022

Table 2: Gamma-Irradiated MPXV hMPXV/USA/MA001/2022, Clade II infected BSC-40 Cell Lysate (NR-58720)

TEST	SPECIFICATIONS	RESULTS
Virus Inactivation 10% of total bulk gamma-irradiated preparation inoculated on BSC-40 cells and evaluated for cytopathic effect and by qPCR. ^{1,2}	No viable virus detected	No viable virus detected

¹ Inactivation testing performed at BEI Resources.

²The gamma-irradiated virus preparation was plated on BSC-40 cells and incubated for 14 days at 37°C and 5% CO₂. Cell lysate and supernatant from these cultures were blind passaged on fresh monolayers of BSC-40 cells and again incubated for 14 days at 37°C and 5% CO₂.

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