

Bioassayplus Inc.

4510 Rhodes Dr. Windsor, Canada, N*W 5K5

Certificate of Analysis

Important note: centrifuge before opening to ensure complete recovery of vial content.

Product name: Full length human Influenza B virus nucleoprotein

Catalog: fluB-NP

Description: Full length human Influenza B virus nucleoprotein was cloned, expressed and purified from *E. coli*. This protein contains a 6 x His tag at its C terminal, migrated at 76.8kDa. Direct ELISA showed that the recombinant Influenza A nucleoprotein can be recognized by the antibody from the infected patients.

The recombinant influenza A nucleoprotein has the sequence is below:

HMSNMDIDGMNTGTIDKTPEEITSGTSGTTRPIIRPAT
LAPPSNKRTRNPSDRTTTTSEDDVGRKAQKKQTPTE
IKKSVYNMVVKLGEFYNQMMVKAGLNDDMERNLI
QNAHAVERILLAATDDKKTEFQKKKNARDVKEGKE
EIDHNKTGGTFYKMVRDDKTIYFSPIRITFLKEEVKT
MYKTTMGSDGFSGLNHIMIGHSQMNDVCFQRSKAL
KRVGLDPSLISTFAGSTVPRRSGATGVAIKGGGTLVA
EAIRFIGRAMADRGLLRDIKAKTAYEKILLNLKNC
APQQKALVDQVIGSRNPGIADIEDLTLLARSMVVVRP
SVASKVVLPISYAKIPQLGFNVVEEYSVMVGYEAMALY
NMAPVLSILRMGDDAKDKSQLFFMSCFGAAYEDLR
VLSALTGTEFKPRSALKCKGFHVPAKEQVEGMGAAL
MSIKLQFWAPMTRSGGNEVGGDGGSGQISCSPVFAV
ERPIALSKQAVRRMLSMNIEGRDADVKGNLLKMMN
DSMAKKTSGNAFIGKMFQISDKNKTNPPIEPIKQTIP
NFFFGRDTAEDYDDLDYLE

Format: purified liquid

Purification:

Full length Influenza A NP, 76.8kDa
Fragment from internal start, 45kDa

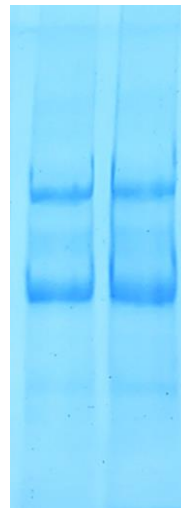
Concentration: 1.8/ml (lot 10-2023C1/2)

Buffer: PBS and 10mM K₂CO₃ with 0025% sodium azide.

Storage: upon receipt, store at -20°C, avoid multiple freeze and thaw cycles.

ELISA test:

Coated protein	10ug	3ug	1ug	0.3ug	0.1ug	33ng	11ng	3ng
1:200 diluted influenza A specimen	0727	0.668	0.651	0.576	0.373	0.206	0.131	0.112
1:200 diluted normal plasma	0.159	0.151	0.134	0.129	0.086	0.069	0.051	0.051
Signal / BKG	4.57	4.42	4.86	4.46	4.33	2.98	2.62	2.19



Recombinant Influenza B nucleoprotein, 76.9kDa, and C-terminal fragment 45kDa from the internal start ATG. Tested on 10-15-2023