

dsDNA (plasmid)

Antigen Specification

Product Number: 12300

Description:

Double-stranded DNA (dsDNA).
Antigen for research use or
manufacturing only.

Immunological function:

Binds IgG-type human auto-antibodies.

Origin:

Bacterial plasmid molecule (Size 3.400
base pairs). Propagated in and purified
from *E. coli*.

Biochemical tests:

Photometric determination of
concentration and purity (OD ratio at
260 nm and 280 nm); agarose gel
electrophoresis for determination of
size, content of closed-circular form
(> 95%) and absence of contaminating
RNA and genomic DNA impurities.

Calculated molecular weight:

2.24 Mega-Dalton

Immunological tests/Functionality:

Standard ELISA test (checkerboard
analysis of positive/negative samples,
including the "First International
Standard Preparation for dsDNA
autoantibodies" (WHO code: Wo/80).
Immunodot analyses with
positive/negative samples.

**Recommended buffer/storage and
handling conditions:**

Recommendations for storage buffer:
neutral to slightly alkaline pH and
presence of 1 mM EDTA.
Storage conditions: - 20°C is possible
for mid-term storage; however, -70°C
or below is recommended. Repeated
freeze/thaw cycles should be avoided.

Coating concentration:

1.0-2.0 µg/mL (depending on the type
of ELISA plate, co-coating reagents
and coating buffer, see also remark
below).
Suitable for biotinylation with DNA-
biotinylation reagents.

CAUTION: This dsDNA antigen is
highly purified and will behave
differently from other DNA antigens
(e.g. genomic DNA), which are often
more readily immobilized onto plastic
surfaces due to residual (and
antigenic!) protein contaminants.
Coating of this dsDNA antigen to
plastic surfaces is satisfactory when
appropriate counterions (polycations,
etc.) are provided in the coating buffer.
If required for assay development,
DIARECT can be contacted for
information on suitable counterions.

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