

dsDNA (plasmid)

Antigen Specification

Product Number: 12300

Description:

Double-stranded DNA (dsDNA).
Antigen for in vitro research and
manufacturing use 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-
biotinylating 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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