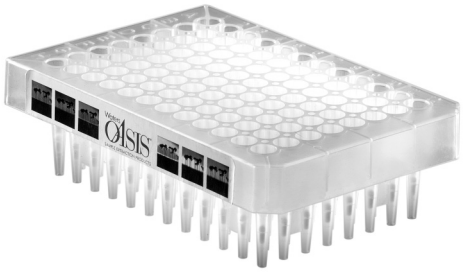
DESALTING OF DNA OLIGONUCLEOTIDES BY SPE FOR MALDI ANALYSIS

NEW! OASIS® µELUTION PLATE



PRINCIPLES OF DESALTING:

DNA oligonucleotides are retained on the Oasis® HLB sorbent by ion-pair reversed-phase mechanism. A volatile ion-pair agent is used as loading buffer* (0.1 triethylamine acetate, pH ~ 7).

The Oasis® HLB µElution 96 well plate has sufficient capacity for desalting 1 pmol up to 5,000 pmol of oligonucleotides sample.

OASIS® HLB µELUTION PLATE EXTRACTION PROTOCOL

Conditions for Oasis® HLB µElution 96-well Plate
Part Number 186001828BA

CONDITION:
200 µL 70 % Acetonitrile H_2O

EQUILIBRATE:
200 µL H_2O

LOAD:
Load solution onto plate at 1 mL/min or less (Low loading speed prevents breakthrough of Oligonucleotides)

WASH #1:
800 µL of 0.1 M TEAAc* buffer (to remove Salts)

WASH #2:
200 µL of H_2O (to remove excess buffer and salts)

ELUTE:
25 mL of 70 % ACN, using a vacuum manifold.
Alternatively, centrifuge plate with 10 µl of 70 % ACN

Lyophilize eluent to complete dryness using SpeedVac
Dissolve sample in MALDI matrix solution