

Instructions for using the Ettan Dige®-System

- For a good experiment 3-4 gels should be prepared.
- For external collaborations the cleaning of proteins should be agreed upon according to protocols prescribed by Amersham.
- It is the best if one already made a 2G-gel with the protein extract (silver-staining, the best show photo).
- Per gel altogether 150 µg are needed:

50 µg "untreated" extract

50 µg "treated" extract

50 µg of a mixture of both protein extracts = internal standard

AS1: Colouring of the protein extracts: with 400 pmol Fluorochrom per 50 µg extract

Duration: 1 hour

Individual expenses: 150 Euro per gel = 3 colorimeters for 3 extracts

Total expenses: For 3-4 gels 600 Euro are estimated.

AS2: Swelling and isoelectric focusing

Duration: 24 hours swelling time and 24 hours IEF

Capacity: maximum of 6 strips

Individual expenses: strips á 18 cm or á 24 cm are available (18 cm = 8 Euro; 24 cm = 10 Euro)

Total expenses: For 3-4 gels 32-40 Euro are therefore estimated.

AS3: 2D gel-electrophoresis

Duration: 5-16 hours

Capacity: maximum of 6 gels

Individual expenses: one gel costs 10 Euro

Total expenses: For 3-4 gels 40 Euro are therefore estimated.

AS4: Scanning & evaluation at the fluorescence-scanner

Duration: scanning of a gel: 1 h; evaluation for 4 gels: 6 h

Total expenses: For 3-4 gels 180 Euro are estimated.

AS5: Spotpicking / digestion of trypsin / mass-spectrometrical analysis

Duration: Spotpicking: 1 h; digestion of trypsin: O/N; mass spectrometry: 5 h

Individual expenses: 15 Euro per analyzed spot

Total expenses: For 50 Spots 750 Euro are estimated.

A. Summary of working time and costs

(internal – in context of a scientific cooperation)

	time (in hours)	material costs (in Euro)
AS1	1	600
AS2	(24+)24	32-40
AS3	5-16	40
AS4	10	180
AS5	22	750 (per 50)
total	7 working days	max. 1610 Euro

B. Summary of working time and costs

(external – without scientific cooperation)

	working time (in Euro)	material costs (in Euro)
total	1000 Euro	1610 Euro

C. Overhead for ZAFES

total	20 %
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