Arbeitsanleitung / Manual

Advanced oxidation protein products (AOPP)

K 7811c *For research use only*

Content of the Kit for 20 determinations in cuvettes

- Sample dilution buffer (SAMPLEBUF) – 50 ml
- Standard dilution buffer (STDBUF) - 2 x 15 ml
- Standard concentrate (STD) (lyophilized) - 100 µmol/l CT eq (CT eq = Chloramine T equivalents) – 2 vials

Preparation of the reagents

- *Sample dilution buffer* (SAMPLEBUF) and *standard dilution buffer* (STDBUF) are ready-to-use
- *Standard concentrate* (STD) *100 µmol/l CT eq* must be reconstituted with 5 ml bidistilled water
- *Standard curve solution* must be prepared from the *Standard concentrate, 100 µmol/l CT eq,* in **1:2** dilution steps by adding standard dilution buffer (STDBUF) as follows:

  Standard concentrate 100 µmol/ml *CT eq* **= S1**

  2,5 ml S1 + **2,5 ml** STDBUF = **S2 (50 µmol/l)**

  2,5 ml S2 + **2,5 ml** STDBUF = **S3 (25,0 µmol/l)**

  2,5 ml S3 + **2,5 ml** STDBUF = **S4 (12,5 µmol/l)**

  2,5 ml S4 + **2,5 ml** STDBUF = **S5 (6,25 µmol/l)**

  Standard dilution buffer (STDBUF) is used as **standard 0 µmol/l**.

Sample preparation

- Centrifugate fresh collected EDTA-Plasma in 2 ml cups at 10 000 rpm for 30 sec before apply to kit
- Mix 400 µl centrifugated EDTA-Plasma with 1600 µl *Sample dilution buffer* (SAMPLEBUF) in 2 ml cup, vortex (**Dilution 1:5**)

Test procedure

- Add 2 ml **Standard** (100 µmol/l; 50 µmol/l; 25 µmol/l; 12,5 µmol/l; 6,25 µmol/l) in the respective cuvette
- Add 2 ml **Standard dilution buffer** (STDBUF) **as standard 0** µmol/l in cuvette
- Add 2 ml **Sample** in duplicate into respective cuvette
- Determine directly the absorption of standards and samples at 340 nm
- Determine the AOPP concentration of patient samples directly from the linear standard curve

Data evaluation

The estimated AOPP value must be multiplied by **5** to obtain the concentration in the patient samples.

Note: Avoid formation of air bubbles when pipetting standards and samples.

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