



小鼠胰高糖素肽 (Glp-1) 酶联免疫

检测试剂盒使用说明书

AE90972Mu

使用前仔细阅读本说明书。本酶联免疫试剂盒是基于双抗体夹心技术原理，来检测小鼠胰高糖素肽 (Glp-1)，只能用于研究用途，不得用于医学诊断。

用 途：用于小鼠血清、血浆及相关液体样本中胰高糖素肽 (Glp-1) 测定。

工作原理

本试剂盒采用的是生物素双抗体夹心酶联免疫吸附法 (ELISA) 测定样品中小鼠胰高糖素肽 (Glp-1) 水平。向预先包被了小鼠胰高糖素肽 (Glp-1) 单克隆抗体的酶标孔中加入小鼠胰高糖素肽 (Glp-1)，温育；温育后，加入生物素标记的抗胰高糖素肽 (Glp-1) 抗体。再与链霉亲和素-HRP 结合，形成免疫复合物，再经过温育和洗涤，去除未结合的酶，然后加入底物 A、B，产生蓝色，并在酸的作用下转化成最终的黄色。颜色的深浅与样品中小鼠胰高糖素肽 (Glp-1) 的浓度呈正相关。

试剂盒组成

试剂盒组成	48 孔配置	96 孔配置	保存
说明书	1 份	1 份	
封板膜	2 片 (48)	2 片 (96)	
密封袋	1 个	1 个	
酶标包被板	1×48	1×96	2-8℃ 保存
标准品 8pmol/L	0.5ml×1 瓶	0.5ml×1 瓶	2-8℃ 保存
标准品稀释液	3ml×1 瓶	6ml×1 瓶	2-8℃ 保存
链霉亲和素-HRP	3 ml×1 瓶	6 ml×1 瓶	2-8℃ 保存
生物素标记的抗 Glp-1 抗体	0.5ml×1 瓶	1 ml×1 瓶	2-8℃ 保存
显色剂 A 液	3 ml×1 瓶	6 ml×1 瓶	2-8℃ 保存
显色剂 B 液	3 ml×1 瓶	6 ml×1 瓶	2-8℃ 保存
终止液	3ml×1 瓶	6ml×1 瓶	2-8℃ 保存
浓缩洗涤液	(20ml×20 倍)×1 瓶	(20ml×30 倍)×1 瓶	2-8℃ 保存

需要而未提供的试剂和器材

1. 37℃恒温箱。
2. 标准规格酶标仪。
3. 精密移液器及一次性吸头
4. 蒸馏水，
5. 一次性试管
6. 吸水纸

注意事项

1. 从 2-8℃取出的试剂盒，在开启试剂盒之前要室温平衡至少 30 分钟。酶标包被板开封后如未用完，板条应装入密封袋中保存。
2. 各步加样均应使用加样器，并经常校对其准确性，以避免试验误差
3. 严格按照说明书的操作进行，试验结果判定必须以酶标仪读数为准。
4. 为避免交叉污染，要避免重复使用手中的吸头和封板膜。
5. 不用的其它试剂应包装好或盖好。不同批号的试剂不要混用。保质前使用。
6. 底物 B 对光敏感，避免长时间暴露于光下。

洗板方法

手工洗板方法：甩掉酶标板内的液体；在实验台上铺垫几层吸水纸，酶标板朝下用力拍几次；将稀释后的洗涤液至少 0.35ml 注入孔内，浸泡 1-2 分钟。根据需要，重复此过程数次。

自动洗板：如果有自动洗板机，应在熟练使用后再用到正式实验过程中

标本要求

1. 不能检测含 NaN₃ 的样品，因 NaN₃ 抑制辣根过氧化物酶的（HRP）活性。

2. 标本采集后尽早进行提取，提取按相关文献进行，提取后应尽快进行实验。若不能马上进行试验，可将标本放于-20℃保存，但应避免反复冻融。

操作程序

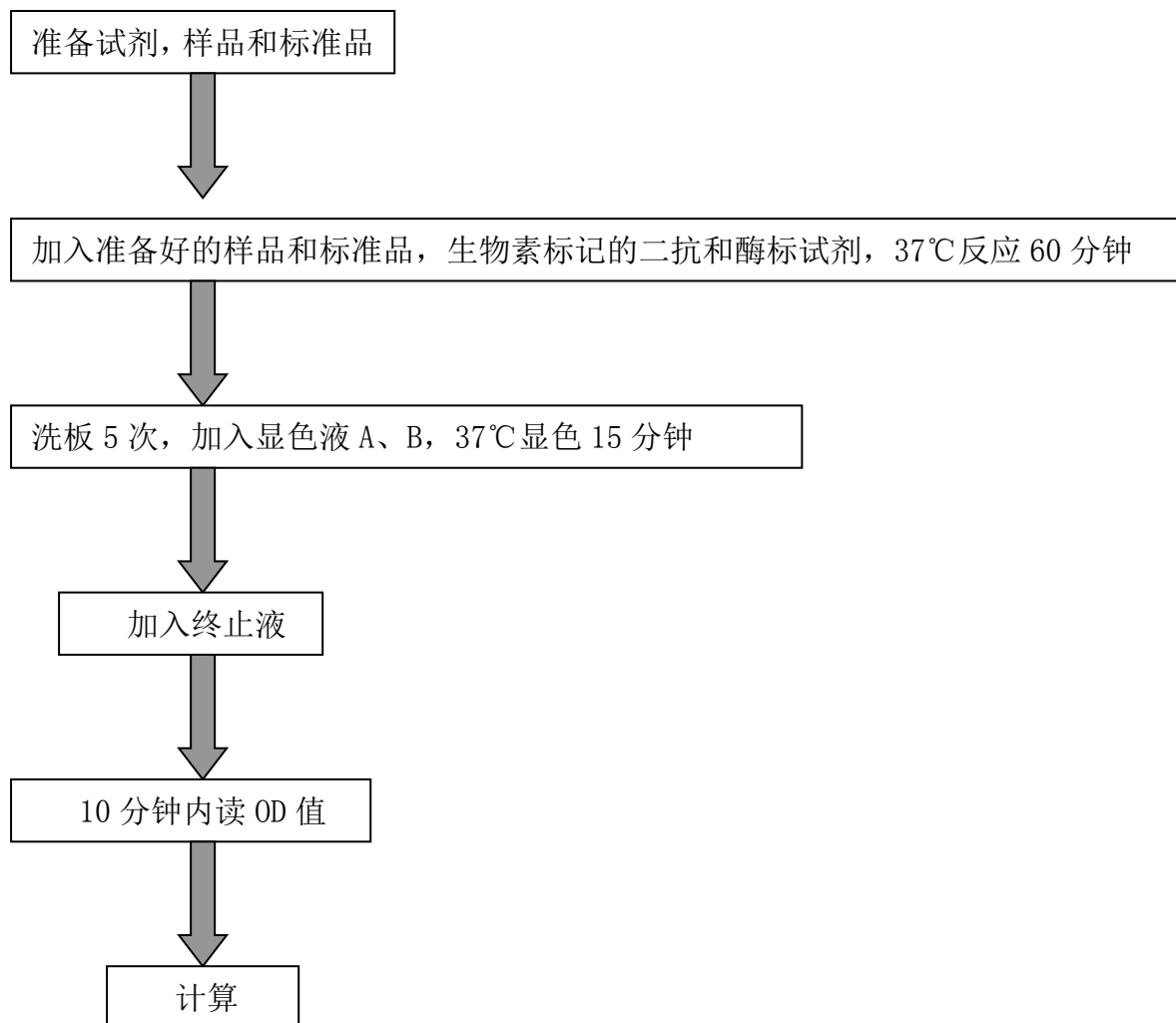
1. 标准品的稀释：（本试剂盒提供原倍标准品一支，用户可按照下列图表在小试管中进行稀释。）

4pmol/L	5 号标准品	120 μ l 的原倍标准品加入 120 μ l 标准品稀释液
2pmol/L	4 号标准品	120 μ l 的 5 号标准品加入 120 μ l 标准品稀释液
1pmol/L	3 号标准品	120 μ l 的 4 号标准品加入 120 μ l 标准品稀释液
0.5pmol/L	2 号标准品	120 μ l 的 3 号标准品加入 120 μ l 标准品稀释液
0.25pmol/L	1 号标准品	120 μ l 的 2 号标准品加入 120 μ l 标准品稀释液

2. 根据待测样品数量加上标准品的数量决定所需的板条数。每个标准品和空白孔建议做复孔。每个样品根据自己的数量来定，能使用复孔的尽量做复孔。
3. 加样：1) 空白孔，空白对照孔不加样品，生物素标记的抗 Glp-1 抗体，链霉亲和素-HRP，只加显色剂 A&B 和终止液，其余各步操作相同；2) 标准品孔：加入标准品 50u1，链霉亲和素-HRP50u1 (标准品中已事先整合好生物素抗体，故不加)；3) 代测样品孔：加入样本 40u1，然后各加入抗 Glp-1 抗体 10u1、链霉亲和素-HRP50u1，盖上封板膜，轻轻震荡混匀，37℃温育 60 分钟。
4. 配液：将 30 倍浓缩洗涤液用蒸馏水 30 倍稀释后备用。
5. 洗涤：小心揭掉封板膜，弃去液体，甩干，每孔加满洗涤液，静置 30 秒后弃去，如此重复 5 次，拍干。
6. 显色：每孔先加入显色剂 A50u1，再加入显色剂 B50 μ l，轻轻震荡混匀，37℃避光显色 15 分钟。
7. 终止：每孔加终止液 50 μ l，终止反应（此时蓝色立转黄色）。
8. 测定：以空白孔调零，450nm 波长依序测量各孔的吸光度（OD 值）。测定应在加终止液后 10 分钟以内进行。
9. 根据标准品的浓度及对应的 OD 值计算出标准曲线的直线回归方程，再根据样品的 OD 值在回归方程上计算出对应的样品浓度。也可以使用各种应用软

件来计算。

操作程序总结：



试剂盒性能：

1. 样品线性回归与预期浓度相关系数 R 值为 0.92 以上。
2. 批内与批间应分别小于 9%和 15%

检测范围：

检测范围：0.1pmol/L -5pmol/L

保存条件及有效期：

保存：2-8℃。

有效期：6 个月(2-8℃)。

Mouse Glp-1 ELISA Kit

Instruction

This kit is only for scientific research, and shall not be used as a clinical diagnosis of use.

Purpose

This kit allows for the determination of Glp-1 concentrations in Mouse serum, cell culture supernatant, and other biological fluids.

Principle

The kit assay Mouse Glp-1 level in the sample, add Mouse Glp-1 antibody to microtiter plate wells, after Incubating, add Biotinylated anti-Glp-1 -antibody , then Combined Streptavidin-HRP, become complex, after Incubating and washing Completely, Add TMB substrate solution, TMB substrate becomes blue color, reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. The concentration of Glp-1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Materials provided with the kit

Materials provided with the kit	48determinations	96 determinations	Storage
User manual	1	1	
Closure plate membrane	2	2	
Sealed bags	1	1	
Microelisa stripplate	1	1	2-8℃
Standard: 8pmol/L	0.5ml×1 bottle	0.5ml×1 bottle	2-8℃
Standard diluent	3ml×1 bottle	6ml×1 bottle	2-8℃
Streptavidin-HRP	3ml×1 bottle	6ml×1 bottle	2-8℃
Biotinylated anti –Glp-1 -antibody	0.5ml×1 bottle	1ml×1 bottle	2-8℃
Chromogen Solution A	3ml×1 bottle	6ml×1 bottle	2-8℃
Chromogen Solution B	3ml×1 bottle	6ml×1 bottle	2-8℃
Stop Solution	3ml×1 bottle	6ml×1 bottle	2-8℃

wash solution	(20ml×20 fold) ×1bottle	(20ml×30 fold) ×1bottle	2-8℃
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Materials required but not supplied

1. 37 °C incubator
2. Standard microplate reader(450nm)
3. Precision pipettes and Disposable pipette tips.
4. deionized water.
5. Disposable Test tube
- 6 Absorbent paper

Important notes

1. The kit takes out from the refrigeration environment should be balanced 15-30 minutes in the room temperature, ELISA plates coated if has not use up after opened, the plate should be stored in Sealed bag.
2. add Sample with sampler Each step, And proofread its accuracy frequently, avoids the experimental error.
3. Please according to use instruction strictly, The test result determination must take the microtiter plate reader as a standard.
4. Use new disposal plastic pipette tips and Closure plate membrane for each standard, in order to avoid cGlp-1s contamination.
5. Do not mix reagents with those from other lots.
6. The substrate evade the light preservation.

Specimen requirements

1. extract as soon as possible after Specimen collection,and according to the relevant literature, and should be experiment as soon as possible after the extraction. If it can't, specimen can be kept in -20 °C to preserve, Avoid repeated freeze-thaw cycles.
2. Can't detect the sample which contain NaN₃, because NaN₃ inhibits HRP active.

Assay procedure

1. Dilute and add sample: Dilute Original density Standard as follow table:

4pmol/L	5 Standard	120μl Original density Standard+120μl Standard diluent
2pmol/L	4 Standard	120μl 5 Standard+120μl Standard diluent
1pmol/L	3 Standard	120μl 4 Standard+120μl Standard diluent
0.5pmol/L	2 Standard	120μl 3 Standard +120μl Standard diluent
0.25pmol/L	1 Standard	120μl 2 Standard +120μl Standard diluent

2. according testing Sample numbers to define how many wells need, Standard and blank suggested Do holes.

3.add sample: 1) blank wells: (blank comparison wells don't add sample , Biotinylated anti –Glp-1 -antibody and Streptavidin-HRP ,other each step operation is same); 2) Standard wells: add Standard 50μl and Streptavidin-HRP 50μl; 3) testing Sample wells: add sample 40μl, then add anti –Glp-1 -antibody 10μl , Streptavidin-HRP 50μl. closing plate with Closure plate membrane ,incubate for 60 min at 37°C.

4.Configure liquid: 30-fold(or 20-fold) wash solution diluted 30-fold (or 20-fold) with distilled water and reserve.

5.washing: Uncover Closure plate membrane, discard Liquid, dry by swing, add washing buffer to every well, still for 30s then drain, repeat 5 times, dry by pat.

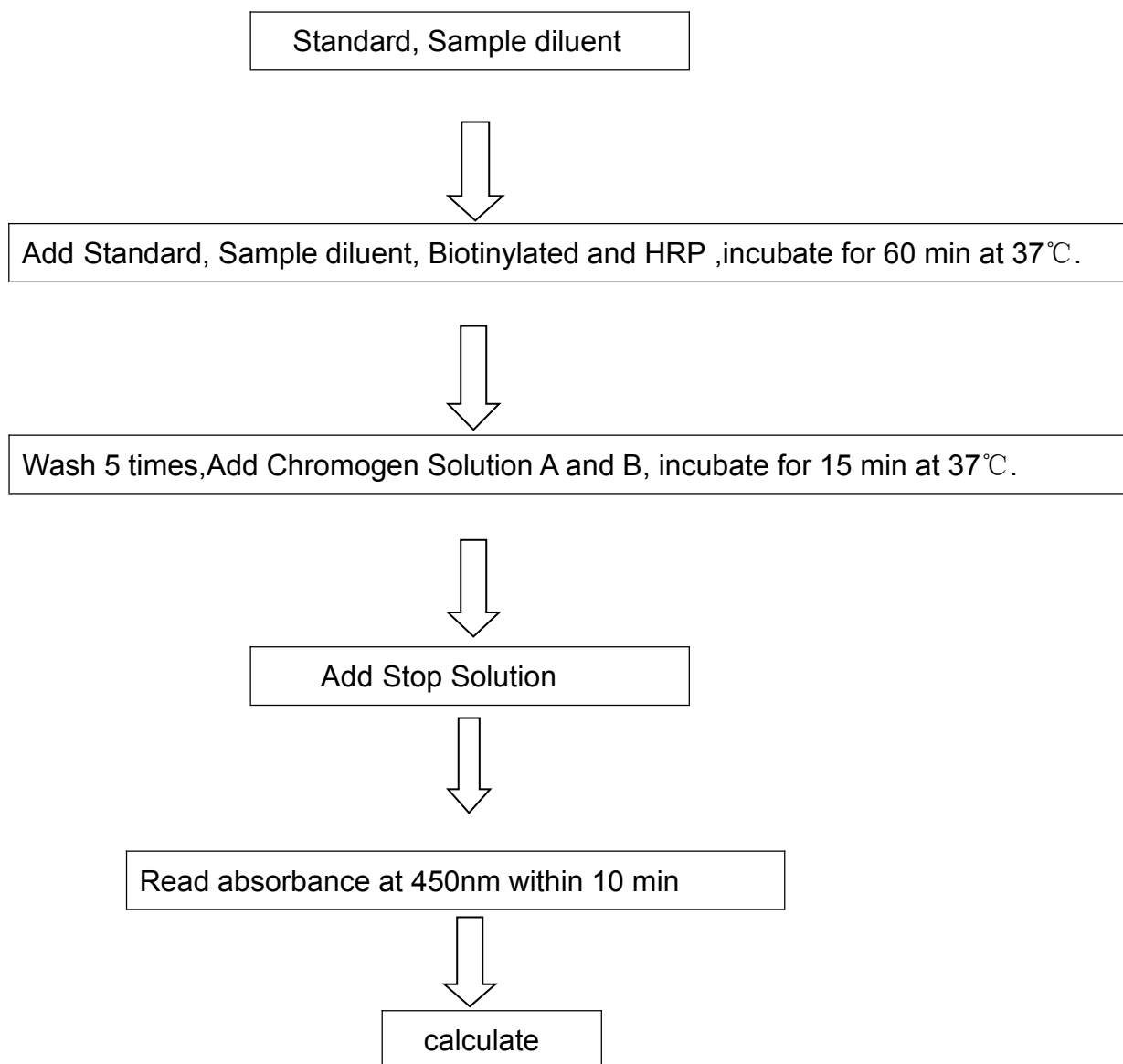
6.color : Add Chromogen Solution A 50ul and Chromogen Solution B to each well, evade the light preservation for 15 min at 37°C

7.Stop the reaction : Add Stop Solution 50μl to each well, Stop the reaction(the blue color change to yellow color).

8. assay : take blank well as zero , Read absorbance at 450nm after Adding
Stop Solution and within 10min.

9. Calculate of result

Steps description



Assay range

0.1pmol/L -5pmol/L

Storage and validity

1. Storage : 2-8°C.
2. validity : six months.