Claims

1. A reagent for detection of protein comprising:
   (a) a protein-complexing dye, and,
   (b) one or more dextrins.

2. A reagent according to claim 1 which is suitable for use in a method of detecting and/or quantifying protein,

wherein the method comprises

contacting a protein with a solution comprising:

   (a) a protein-complexing dye, and
   (b) one or more dextrins,

and detecting and/or quantifying dye/protein complex formation,

wherein the method is suitable for detecting and/or quantifying protein when the protein is in the presence of a detergent or a surfactant.

3. A reagent according to claim 1 or claim 2 wherein the reagent is a reagent concentrate.

4. A reagent according to any of claims 1 to 3 and which further comprises an acid with a pKa of 4 or less, preferably the acid having a pKa in the range of from about 1 to about 3.

5. A reagent according to any of claims 1 to 4 and which further comprises a solubilising agent.

6. A reagent according to any of claims 1 to 5 wherein the protein-complexing dye does not comprise a protein.

7. A reagent according to any one of claims 1 to 6 wherein the dye is a Coomassie dye, for example a Coomassie brilliant blue dye, such as G-250.

8. A reagent according to any one of claims 1 to 7 wherein the dextrin concentration is in the range of from about 0.01 to about 200mg/ml.

9. A reagent according to any one of claims 1 to 8 wherein the dextrin concentration is in the range of from about 0.5 to about 50mg/ml.

10. A reagent according to any one of claims 1 to 9 wherein the dye is present at a concentration in the range of from about 0.001% to about 0.1% (w/v).

11. A reagent according to any one of claims 1 to 10 which may be diluted, wherein typically the ratio of reagent to diluent is in the range of from about 1:1 to about 1:60.

12. A reagent according to claim 4 wherein the acid is an acid selected from a phosphoric acid, a phosphorous (phosphonic) acid, periodic acid, selenic acid, maleic acid, oxalic acid, dichloroacetic acid, and Nitrilotris (methylene) triphosphonic acid and wherein the acid is present at a concentration of from about 4% to about 20% (w/v).

13. A reagent according to any of claims 1 to 12 comprising one or more alcohols, wherein the one or more alcohols are selected from

ethanol, methanol and propanol, and wherein the alcohol concentration is from about 0.1% to about 10% v/v.

14. A reagent according to any of claims 1 to 13 comprising a detergent.

15. A multipart or single component kit suitable for detecting protein, the kit comprising one or more dextrin(s) and a protein-complexing dye.

Claims

1 . A single component or multipart kit reagent for detecting and/or quantifying detection of protein comprising:

(a) a protein-complexing dye; and,

(b) one or more 0t cyclodextrins, y-cyclodextrins, or linear dextrins and derivatives thereof, or two or more dextrins,

which is suitable for use in a method of detecting and/or quantifying protein when the protein is in the presence of a detergent or a surfactant.

2.A single component or multipart kit according to claim 1,wherein only at least one of the protein complexing dye, or atleast one of the protein complexing dye and/or the one ormore (x-cyclodextrins, y-cyclodextrins, or linear dextrins and derivatives thereof or two or more dextrins is present as aliquid or solid concentrate capable of further dilution when in use.

3. A single component or multipart kit according to claim 1 wherein at least one of the protein complexing dye and/or one or more (x-cyclodextrins, y cyclodextrins, or linear dextrins and derivatives thereof or two or more dextrins is in the form of an aqueous solution.

4. A single component or multipart kit according to claim 3 wherein the protein complexing dye is in the form of an aqueous solution.

5. A single component or multipart kit according to claim 4 wherein the solution further comprises an acid with a pKa of 4 or less.

6. A single component or multipart kit according to claim 5 wherein the acid has a pKa in the range of from about 1 to about 3.

7. A single component or multipart kit according to claim 1which further comprises a solubiliZing agent.

8. A single component or multipart kit according to claim 1 wherein the protein-complexing dye does not comprise a protein.

9. A single component or multipart kit according to claim 1 wherein the protein-complexing dye is a Coomassie dye.

10. A single component or multipart kit according to claim 1 wherein the (x-cyclodextrins, y-cyclodextrins, or linear dex trins and derivatives thereof or two or more dextrins concentration is in the range of from about 0.01 to about 200 mg/ml.

11. A single component or multipart kit according to claim 10 wherein the (x-cyclodextrins, y-cyclodextrins, or linear dextrins and derivatives thereof or two or more dextrins and derivatives thereof concentration is in the range of from about

0.5 to about 50 mg/ml.

12. A single component or multipart kit according to claim 1 wherein the dye is present at a concentration in the range of from about 0.001% to about 0.1% (w/v).

13. A single component or multipart kit according to claim 1 wherein each of the single or multiple components may respectively be diluted, wherein typically the ratio of component to diluent is in the range of from about 1:1 to about 1:60.

14. A single component or multipart kit according to claim 5 wherein the acid is an acid selected from a phosphoric acid, a phosphorous (phosphonic) acid, periodic acid, selenic acid, maleic acid, oxalic acid, dichloroacetic acid, and Nitrilotris (methylene) triphosphonic acid and wherein the acid is present at a concentration of from about 4% to about 20% (w/v).

15. A single component or multipart kit according to claim 1 further comprising one or more alcohols, wherein the one or more alcohols are selected from ethanol, methanol and propanol, and wherein the alcohol concentration is from about 0.1% to about 10% v/v.

16. A single component or multipart kit according to claim 1, wherein the kit is a multipart kit, one part comprising the protein complexing dye and another part comprising the one or more (x-cyclodextrins, y-cyclodextrins, or linear dextrins and derivatives thereof or two or more dextrins.

17. A single component or multipart kit according to claim 1, wherein the kit is a single component kit, the kit comprising a protein complexing dye and one or more (x-cyclodextrins, y-cyclodextrins, or linear dextrins and derivatives thereof or two or more dextrins.

18. A single component or multipart kit reagent for detecting and/ or quantifying detection of protein comprising:

(a) a protein-complexing dye, and,

(b) two or more dextrins,

which is suitable for use in a method of detecting and/or quantifying protein when the protein is in the presence of a detergent or a surfactant.

19. The kit according to claim 18, wherein the two or more dextrins are selected from the group consisting of (x-cyclodextrins, [3-cyclodextrins, y-cyclodextrins, linear dextrins and derivatives thereof.

20. The kit according to claim 18, wherein the protein complexing dye is selected from the group consisting of a Coomassie dye, Biuret reagent and Biuret reagent with Folin Ciocalteu reagent.