Protein concentrations (monoclonal (M) protein, human serum albumin (HSA), and the α1-, α2-, β1-, β2- and γ-globulin fractions), thermodynamic parameters (Tm – transition temperature, cP –excess heat capacity, ΔHtot – total enthalpy and TFM – thermograms′ first moment) and similarity metric parameter ρ derived for different MM sets. Sets designations: for IgG and IgA cases the designations are obtained from Figure 1 in Todinova et al. (2011, *Anal. Chem.* **83**, 7992–7998) and are comprised of the panel lettering (in brackets) and the MM group name; the designation of BJ MM and NS MM correspond to those presented in Todinova et al. (2014, *Anal Chem*. **86**, 12355–12361); IgM MM sets are taken from Krumova et al. (2015, *Thermochim. Acta* **615**, 23–29).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sets | [HSA] | [α1] | [α2] | [β1] | [β2] | [γ] | TmHSA | cPHSA | TmIgs | cPIgs | ΔHtot | ρ | TFM |
|  |
| (A)MMt21 | 47.58 | 4.85 | 12.95 | 5.55 | 4.05 | 9.6 | 62.1 | 0.35 | 68.5 | 0.13 | 2.8 | 0.74 | 64.6 |
| (B)MMt21 | 40.49 | 4.6 | 11.25 | 6 | 4.37 | 19.93 | 62.05 | 0.27 | 68.92 | 0.2 | 3.35 | 0.68 | 65.6 |
| (B)MMt22 | 48.72 | 3.35 | 11.6 | 4.45 | 3.35 | 23.05 | 62.325 | 0.225 | 70.44 | 0.29 | 3.34 | 0.62 | 68.59 |
| (C)MMt31 | 38.93 | 4.54 | 11.58 | 5.32 | 4.58 | 27.28 | 63.29 | 0.268 | 68.08 | 0.186 | 3.45 | 0.72 | 66.63 |
| (D)MMt32 | 44.21 | 4.6 | 10.93 | 6.1 | 7.4 | 11.67 | 65.61 | 0.24 | 72.1 | 0.18 | 3.36 | 0.63 | 68.14 |
| (D)MMt33 | 42.87 | 4.36 | 10.68 | 5.45 | 4.84 | 21 | 64.97 | 0.2 | 70.19 | 0.25 | 3.51 | 0.6 | 68.4 |
| (E1)MMt32 | 43.61 | 3.65 | 9.2 | 3.8 | 2.95 | 40.7 | 66.42 | 0.4 | 70.05 | 0.23 | 4.17 | 0.52 | 61.25 |
| (E2)MMt32 | 38.49 | 3.93 | 8.5 | 5.17 | 3.8 | 34.57 | 62.7 | 0.2 | 69.4 | 0.37 | 4.21 | 0.59 | 68.19 |
| (F)IgAt32 | 34.93 | 3.97 | 10.23 | 9.03 | 14.07 | 21.93 | 67.33 | 0.33 | 72.78 | 0.2 | 3.95 | 0.58 | 67.79 |
| (F)IgAt22 | 38.37 | 3.06 | 7.98 | 5.66 | 34.16 | 9.76 | 62.79 | 0.18 | 74.48 | 0.4 | 4.04 | 0.42 | 70.53 |
| BJ11 | 45.64 | 5.44 | 11.75 | 5.69 | 4.09 | 7.97 | 62.05 | 0.32 | 68.89 | 0.15 | 3.37 | 0.74 | 65.69 |
| BJ12 | 41.12 | 5.84 | 13.68 | 5.74 | 4.71 | 8.04 | 63.11 | 0.26 | 69.26 | 0.17 | 3.6 | 0.68 | 65.86 |
| BJ2 | 52.41 | 5.39 | 12.96 | 5.34 | 4.96 | 8.97 | 63.68 | 0.27 | 69.32 | 0.18 | 3.74 | 0.7 | 66.71 |
| BJ3 | 42.22 | 5.29 | 11.38 | 5.36 | 4.79 | 11.93 | 65.71 | 0.23 | 74.33 | 0.17 | 3.61 | 0.63 | 68.34 |
| BJ4 | 40.04 | 5.45 | 10.33 | 19.7 | 8.68 | 3.85 | 68.78 | 0.18 | 76.94 | 0.2 | 4.71 | 0.4 | 69.03 |
| NS11 | 45.63 | 4.4 | 9.95 | 5.39 | 4.28 | 13.62 | 62.56 | 0.3 | 69.23 | 0.19 | 3.63 | 0.71 | 66.8 |
| NS12 | 44.32 | 4.54 | 10.12 | 5.66 | 4.75 | 12.33 | 63.04 | 0.24 | 70.56 | 0.15 | 3.19 | 0.71 | 67.94 |
| NS21 | 43.67 | 4.61 | 10.53 | 5.57 | 4.89 | 14.18 | 63.94 | 0.26 | 69.6 | 0.2 | 3.84 | 0.68 | 67.64 |
| NS22 | 43.08 | 4.65 | 11.49 | 5.65 | 4.89 | 16.51 | 64.57 | 0.21 | 68.84 | 0.21 | 3.6 | 0.58 | 68.91 |
| NS3 | 44.58 | 4.42 | 10.56 | 5.63 | 4.47 | 14.46 | 66.92 | 0.23 | 74.05 | 0.19 | 3.75 | 0.55 | 69.58 |
| IgM11 | 41.39 | 4.95 | 10.75 | 5.05 | 7.6 | 17.19 | 62.55 | 0.32 | 71.39 | 0.18 | 3.72 | 0.72 | 66.78 |
| IgM12 | 43.1 | 4.22 | 9.39 | 5.17 | 7.29 | 15.79 | 62.92 | 0.24 | 69.96 | 0.21 | 3.58 | 0.66 | 68.24 |
| IgM21 | 39.01 | 3.68 | 7.74 | 3.91 | 5.97 | 36.27 | 62.93 | 0.2 | 71.01 | 0.3 | 3.84 | 0.61 | 69.63 |
| IgM22 | 43.95 | 3.57 | 8.37 | 4.49 | 5.13 | 26.21 | 62.4 | 0.17 | 70.56 | 0.25 | 4.07 | 0.65 | 68.77 |
| IgM3 | 37.39 | 3.53 | 7.85 | 3.96 | 5.11 | 41.01 |  |  | 70.41 | 0.37 | 4.27 | 0.56 | 69.47 |