Australian Red Cross
BLOOD SERVICE

30 April 2018

Red Cells Leucodepleted Washed in SAG-M

Information sheet – Modification to manufacturing process from 14 May 2018

Blood Service evaluation and validation studies confirm that washed red cell (wRBC) components manufactured using the new Saline Adenine Glucose Mannitol (SAG-M) wash process meet all quality specifications prescribed for washed components. The component specifications and comparative typical unit content for wRBC manufactured using the new wash process and the current 0.9% saline wash process is provided in the table below.

Table 1: Comparative washed red cell (wRBC) component data

Component	**Volume** (mL)	**Haemoglobin** (g/unit)	**Haematocrit** (L/L)	**Haemolysis** (%)	**Leucocyte Count** ($x10^6$/unit)	**Last Wash Supernatant Total Protein** (g/unit)	**IgA** (g/L)
Specification	**>130**	**≥ 37**	**0.50 – 0.70**	**<0.8**	**<1.0**	**<0.5**	**N/A**
wRBC prepared using 0.9% saline wash process[1]	274 ± 21	46 ± 5	0.53 ± 0.03	0.20 ± 0.1	Initial unit equivalent to <1.0	0.1 ± 0.1	Not available
wRBC prepared using SAG-M wash process	266 ± 15	49 ± 5	0.62 ± 0.02	0.11 ± 0.05*	0.01 ± 0.03	0.11 ± 0.04	<0.001 **

[1] Refer https://transfusion.com.au/blood_products/components/red_cells (Blood Service data 01 Jan – 31 Dec 2017)

*14 days post washing / 28 days post collection (Blood service data on file)

** Below assay limit of detection (Blood service data on file)