5.3.2 Swimming velocity

The above calculations yield a lengthy expression summarized in Eq. (B.1) of the Appendix. This result (B.1) is suitable for numerical studies of swimming cycles with arbitrarily large deformations. For the simple case where all the spheres have the same radii, namely $a = a_1 = a_2 = a_3$, Eq. (5.26) simplifies to

$$V_0 = \frac{a}{6}\left[\left(\frac{\dot{L}_2 - \dot{L}_1}{L_1 + L_2}\right) + 2\left(\frac{\dot{L}_1}{L_2} - \frac{\dot{L}_2}{L_1}\right)\right], \tag{5.28}$$