

$$\mathcal{D}_8: \frac{\rho[\rho_0] \vdash_{\Delta[\Delta 0]} \mathbf{d}_1 \rightarrow_{\mathbf{d}} \mathbf{d}_1'}{\rho \vdash_{\Delta} \rho_0 \mathbf{in} \mathbf{d}_1 \rightarrow_{\mathbf{d}} \rho_0 \mathbf{in} \mathbf{d}_1'}$$