$$p\ \frac{-}{\mathcal{M}, s \vdash_{[]} p}\ p \in L(s) \qquad \neg p\ \frac{-}{\mathcal{M}, s \vdash_{[]} \neg p}\ p \notin L(s)$$

$$\wedge\ \frac{\mathcal{M}, s \vdash_{[]} \phi \qquad \mathcal{M}, s \vdash_{[]} \psi}{\mathcal{M}, s \vdash_{[]} \phi \wedge \psi}$$

$$\vee_1\ \frac{\mathcal{M}, s \vdash_{[]} \phi}{\mathcal{M}, s \vdash_{[]} \phi \vee \psi} \qquad \vee_2\ \frac{\mathcal{M}, s \vdash_{[]} \psi}{\mathcal{M}, s \vdash_{[]} \phi \vee \psi}$$

$$\mathsf{AX}\ \frac{\mathcal{M}, s_1 \vdash_{[]} \phi \quad \cdots \quad \mathcal{M}, s_n \vdash_{[]} \phi}{\mathcal{M}, s \vdash_{[]} \mathsf{AX}\,\phi}$$

$$\mathsf{AG}_1\ \frac{-}{\mathcal{M}, s \vdash_U \mathsf{AG}\,\phi}\ s \in U \qquad \mathsf{AF}_1\ \frac{\mathcal{M}, s \vdash_{[]} \phi}{\mathcal{M}, s \vdash_U \mathsf{AF}\,\phi}\ s \notin U$$

$$\mathsf{AG}_2\ \frac{\mathcal{M}, s \vdash_{[]} \phi \qquad \mathcal{M}, s_1 \vdash_{U,s} \mathsf{AG}\,\phi \ \cdots\ \mathcal{M}, s_n \vdash_{U,s} \mathsf{AG}\,\phi}{\mathcal{M}, s \vdash_U \mathsf{AG}\,\phi}\ s \notin U$$

$$\mathsf{AF}_2\ \frac{\mathcal{M}, s_1 \vdash_{U,s} \mathsf{AF}\,\phi \quad \cdots \quad \mathcal{M}, s_n \vdash_{U,s} \mathsf{AF}\,\phi}{\mathcal{M}, s \vdash_U \mathsf{AF}\,\phi}\ s \notin U$$

$$\mathsf{EX}\ \frac{\mathcal{M}, s' \vdash_{[]} \phi}{\mathcal{M}, s \vdash_{[]} \mathsf{EX}\,\phi} \qquad \mathsf{EG}_1\ \frac{-}{\mathcal{M}, s \vdash_U \mathsf{EG}\,\phi}\ s \in U$$

$$\mathsf{EG}_2\ \frac{\mathcal{M}, s \vdash_{[]} \phi \qquad \mathcal{M}, s' \vdash_{U,s} \mathsf{EG}\,\phi}{\mathcal{M}, s \vdash_U \mathsf{EG}\,\phi}\ s \notin U$$

$$\mathsf{EF}_1\ \frac{\mathcal{M}, s \vdash_{[]} \phi}{\mathcal{M}, s \vdash_U \mathsf{EF}\,\phi}\ s \notin U \qquad \mathsf{EF}_2\ \frac{\mathcal{M}, s' \vdash_{U,s} \mathsf{EF}\,\phi}{\mathcal{M}, s \vdash_U \mathsf{EF}\,\phi}\ s \notin U$$