

$$\begin{aligned}
 & D_q^\alpha \left\{ t^{\gamma-1} N_{p_i, q_i; \tau_i; r}^{m,n} \left[\{at^\beta, q\} \Big| {}_{(b_j, B_j)}^{(a_j, A_j)} {}_{1,m}^{[\tau_i(a_{ji}, A_{ji})]_{n+1,p_i}} \right] \right\} x = \\
 &= \frac{1}{2\pi i} \int_L \frac{\prod_{j=1}^m \Gamma_q(b_j - B_j s) \prod_{j=1}^n \Gamma_q(1-a_j + A_j s) ds}{\sum_{i=1}^r \tau_i \prod_{j=m+1}^q \Gamma_q(1-b_{ji} + B_{ji} s) \prod_{j=n+1}^p \Gamma_q[a_{ji} - A_{ji} s] \Gamma_q(s) \Gamma_q(1-s) \sin \pi s} \frac{a^k x^{\beta k + \gamma - \alpha - 1}}{(q;q)_k}. \\
 & D_q^\alpha \left\{ t^{\gamma-1} N_{p_i, q_i; \tau_i; r}^{m,n} \left[\{at^\beta, q\} \Big| {}_{(b_j, B_j)}^{(a_j, A_j)} {}_{1,m}^{[\tau_i(a_{ji}, A_{ji})]_{n+1,p_i}} \right] \right\} x \\
 &= x^{\gamma - \alpha - 1} N_{p_{i+1}, q_{i+1}; \tau_i; r}^{m,n} \left\{ \{ax^\beta, q\} \Big| {}_{((\alpha+\gamma)\beta)(b_j, B_j)}^{(\gamma, \beta)(a_j, A_j)} {}_{1,m}^{[\tau_i(a_{ji}, A_{ji})]_{n+1,p_i}} \right\}
 \end{aligned}$$

This completes proof of the theorem.

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